

Pentoses

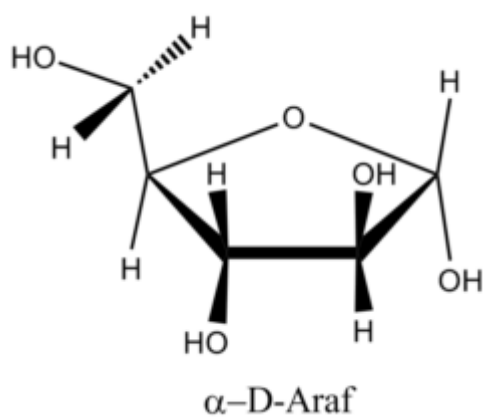
## Description

### ARABINOSE

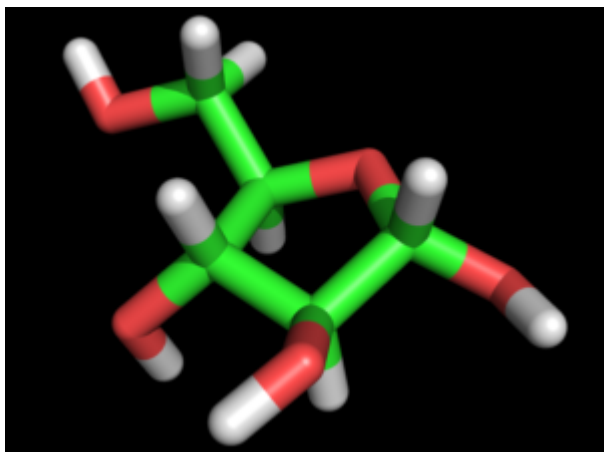
*gets its name from "Gum Arabic", from which it was first isolated*



?-D-Arabinofuranose



?-D-Arabinofuranose



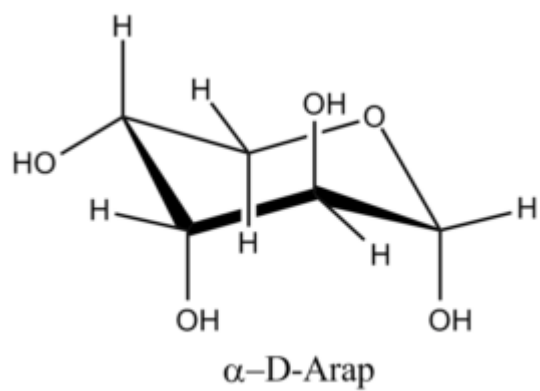
$\alpha$ -D-Arabinofuranose



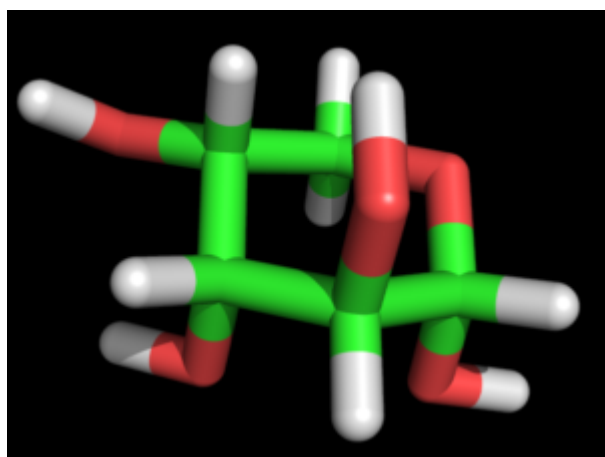
$\alpha$ -D-Arabinofuranose



$\beta$ -D-Arabinopyranose



?-D-Arabinopyranose

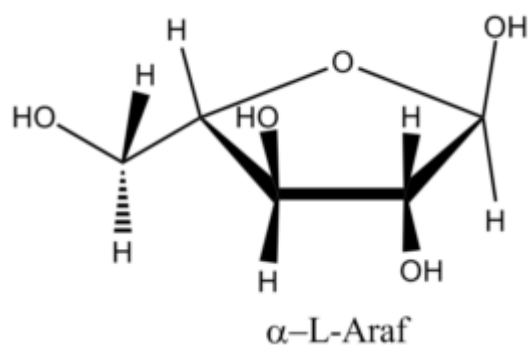


PDB

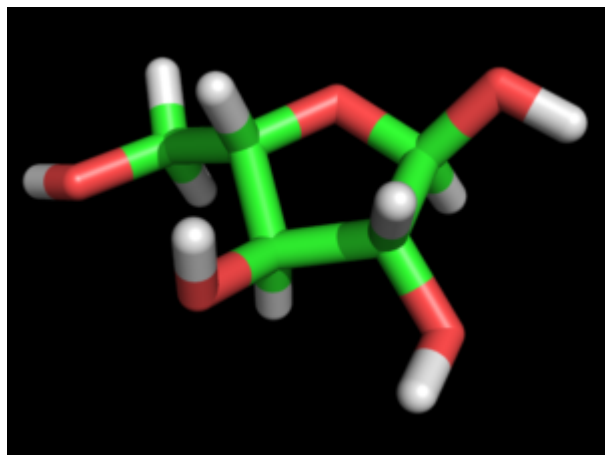
?-D-Arabinopyranose



?-L-Arabinofuranose



?-L-Arabinofuranose

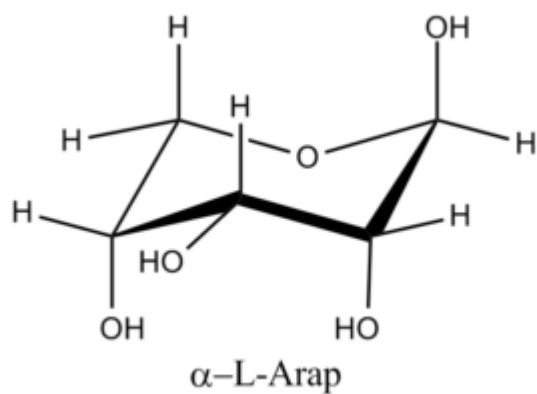


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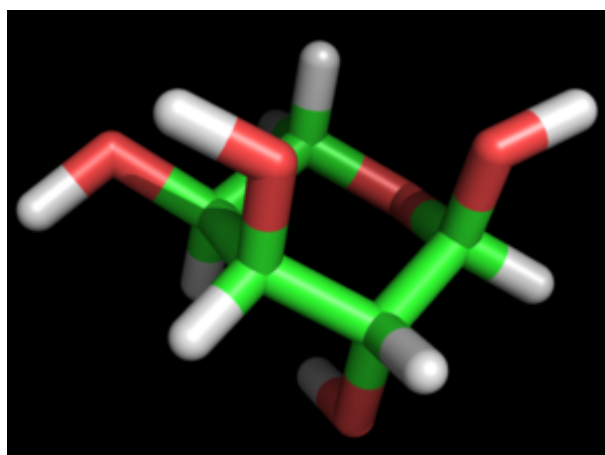
?-L-Arabinofuranose



?-L-Arabinopyranose



?-L-Arabinopyranose



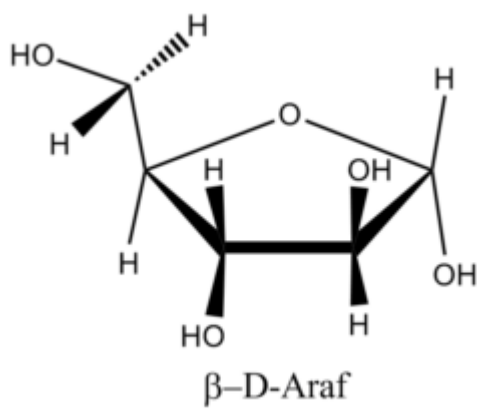
?-L-Arabinopyranose

PDB

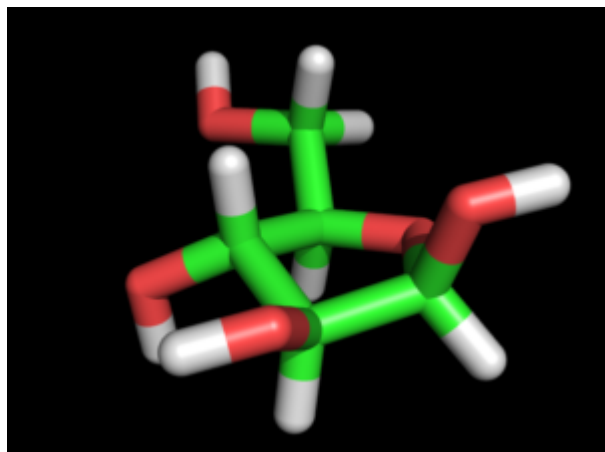
?-L-Arabinopyranose



?-D-Arabinofuranose



?-D-Arabinofuranose

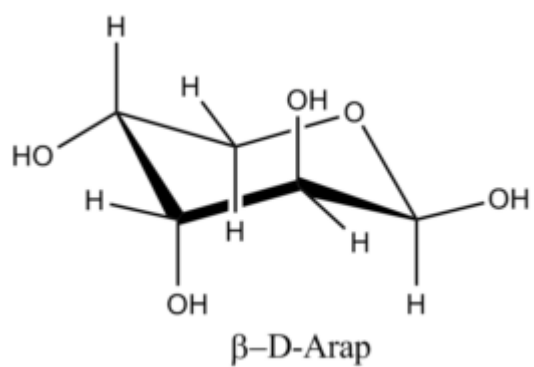


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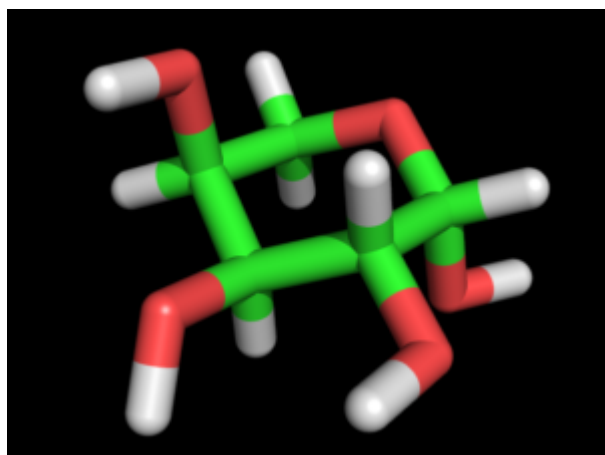
?D-Galactofuranose



?-D-Arabinopyranose



?-D-Arabinopyranose



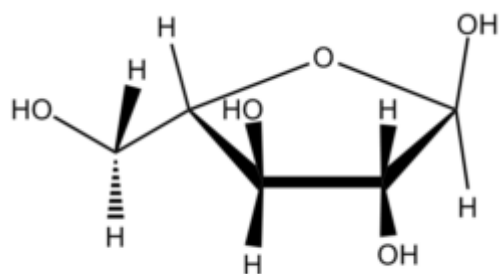
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?-D-Arabinopyranose



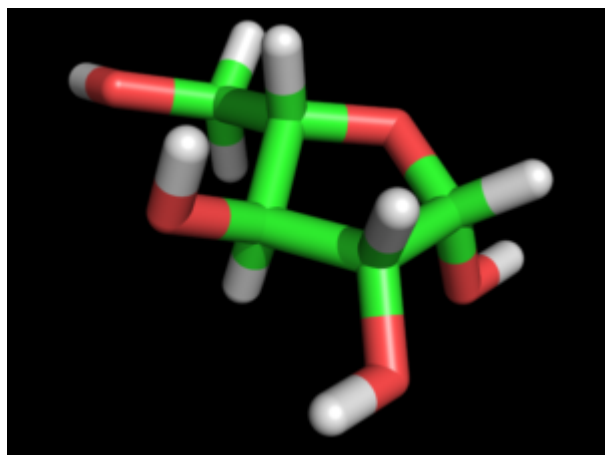


?-L-Arabinofuranose



$\beta$ -L-Araf

?-L-Arabinofuranose

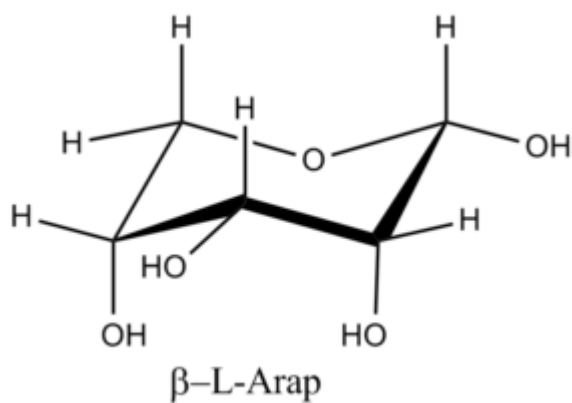


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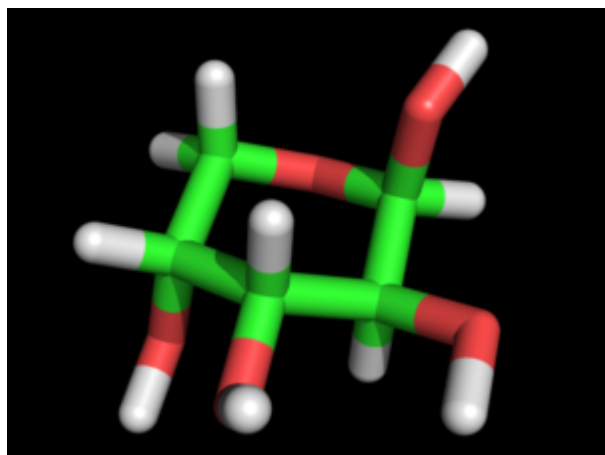
?-L-Arabinofuranose



?-L-Arabinopyranose



?-L-Arabinopyranose



?-L-Arabinopyranose

PDB

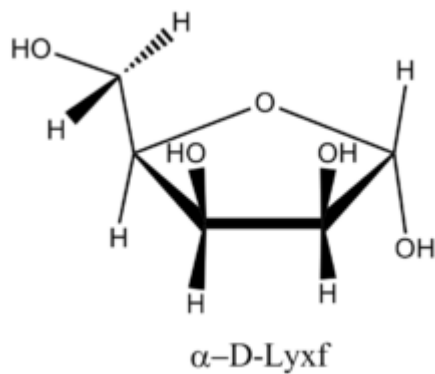
?-L-Arabinopyranose

## LYXOSE

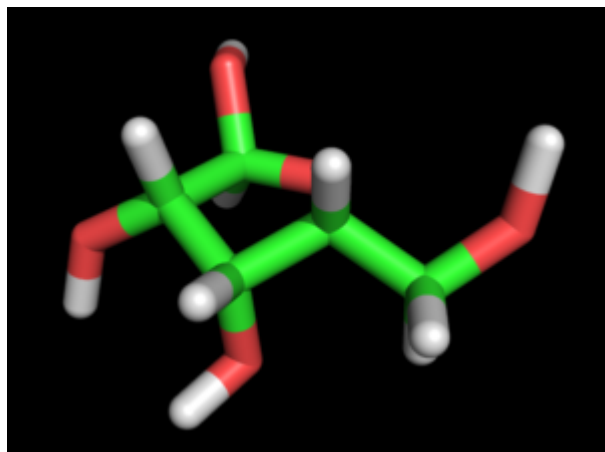
gets its name as an anagram of "Xylose"



?-D-Lyxofuranose



?-D-Lyxofuranose

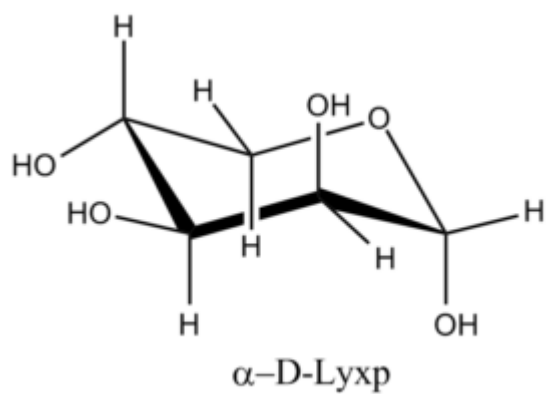


PDB

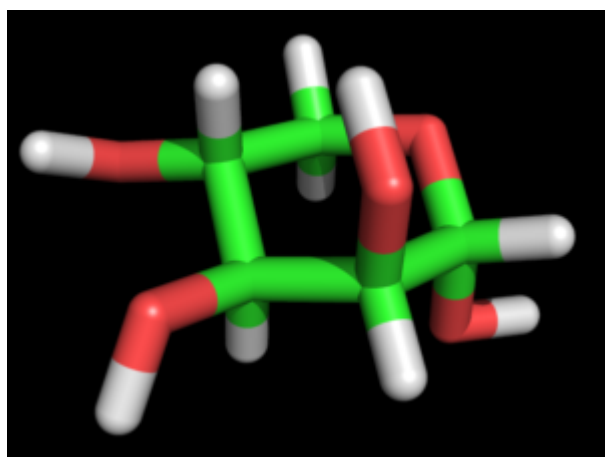
?-D-Lyxofuranose



?-D-Lyxopyranose



?-D-Lyxopyranose

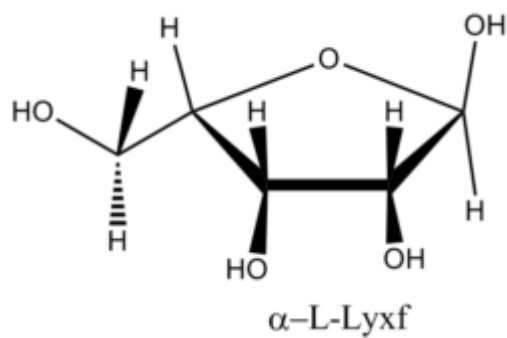


PDB

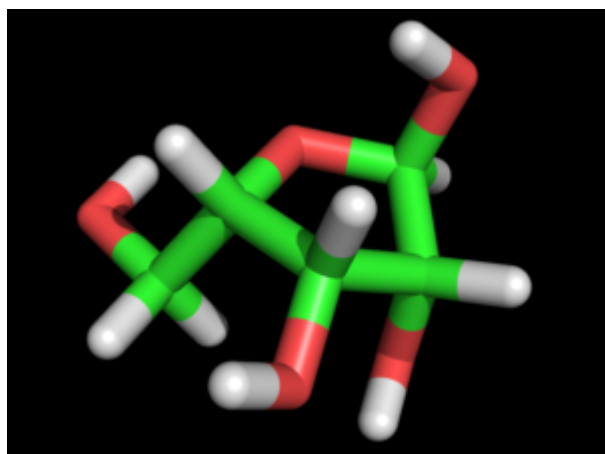
?-D-Lyxopyranose



?-L-Lyxofuranose



?-L-Lyxofuranose

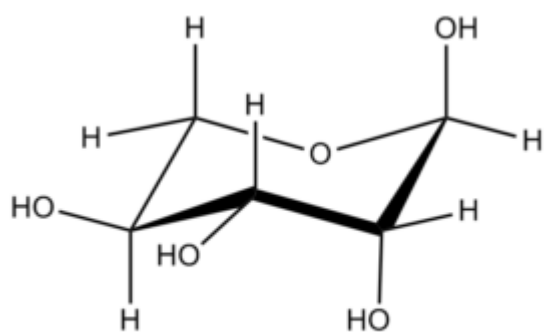


PDB

?-L-Lyxofuranose

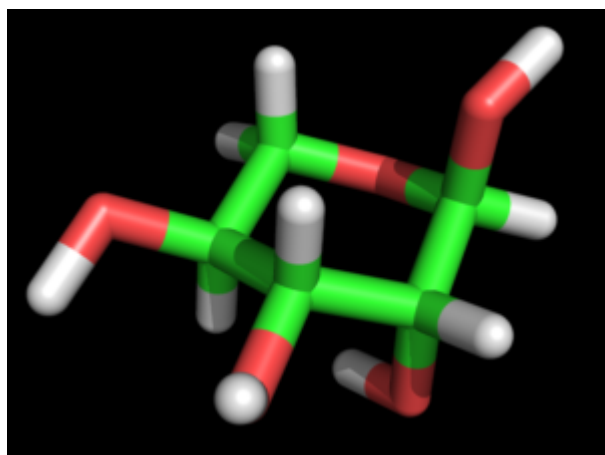


?-L-Lyxopyranose



$\alpha$ -L-Lyxp

?-L-Lyxopyranose



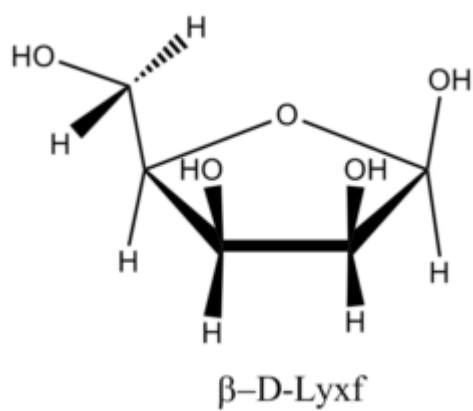
?-L-Lyxopyranose

PDB

?-L-Lyxopyranose

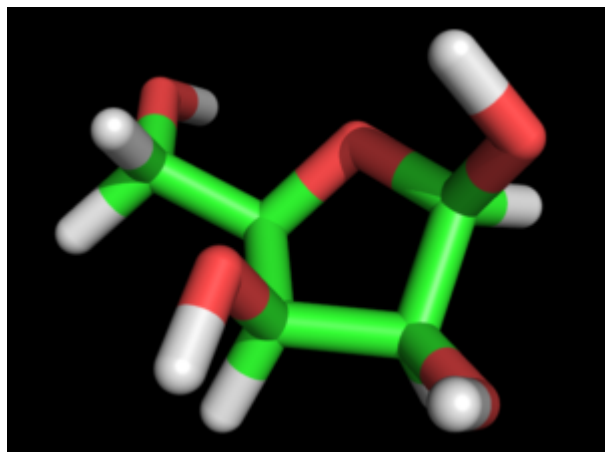


?-D-Lyxofuranose



?-D-Lyxofuranose



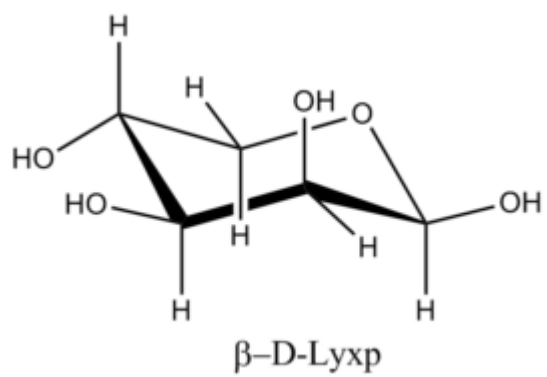


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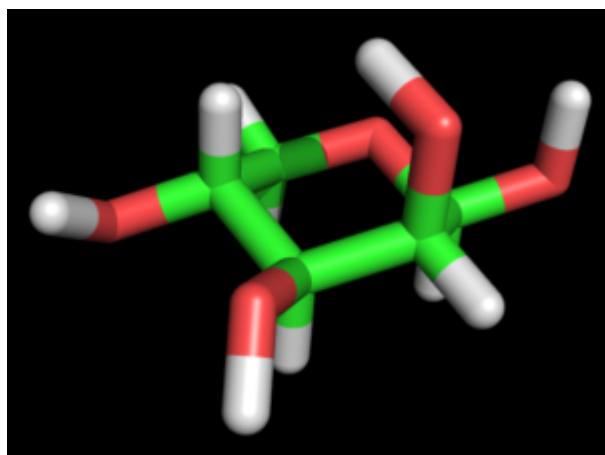
?-D-Lyxofuranose



?-D-Lyxopyranose



?-D-Lyxopyranose

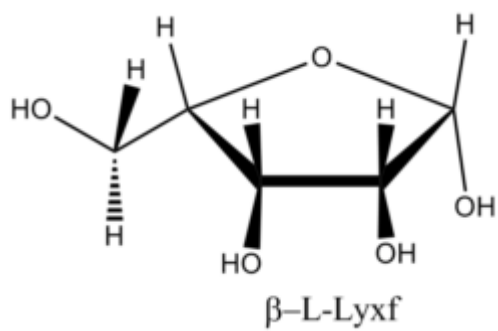


PDB

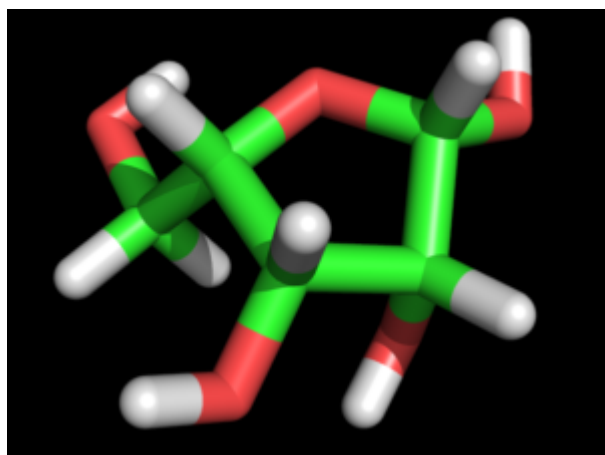
?-D-Lyxopyranose



?-L-Lyxofuranose



?-L-Lyxofuranose

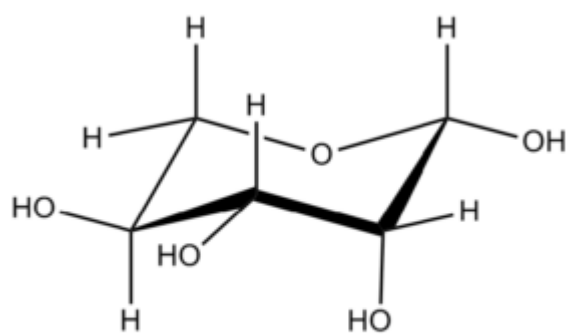


PDB

?-L-Lyxofuranose

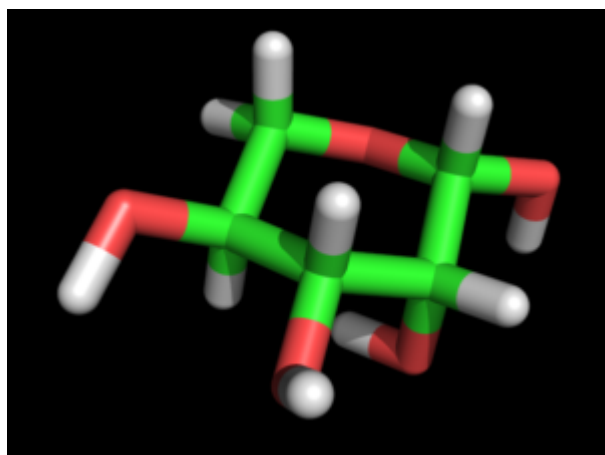


?-L-Lyxopyranose



$\beta$ -L-Lyxp

?-L-Lyxopyranose



?-L-Lyxopyranose

The logo for the Protein Data Bank (PDB) is displayed in white, bold, sans-serif capital letters on a solid blue square background.

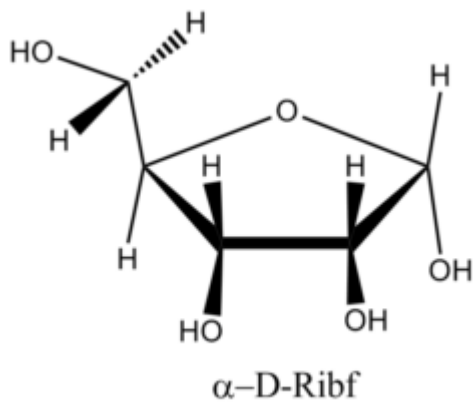
?-L-Lyxopyranose

## RIBOSE

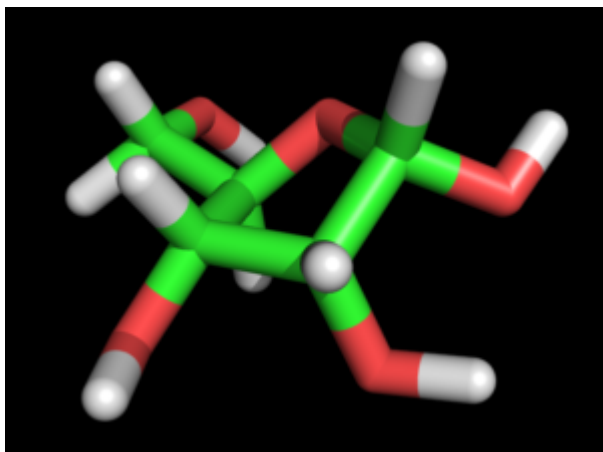
*gets its name from "Arabinose" by omission and transposition of letters*



?-D-Ribofuranose



?-D-Ribofuranose

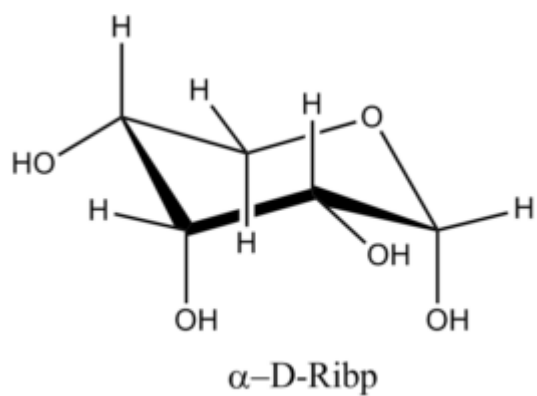


PDB

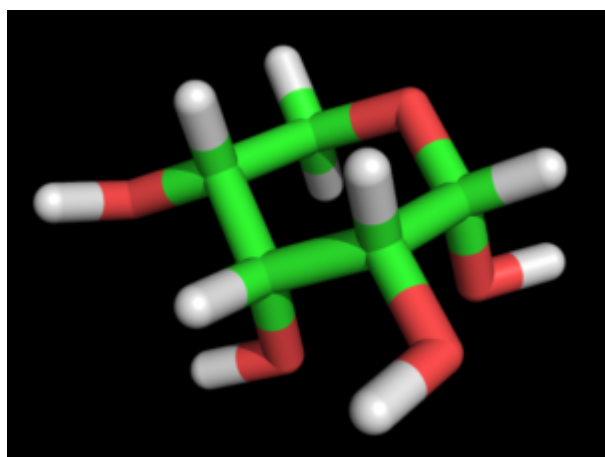
?-D-Ribofuranose



?-D-Ribopyranose

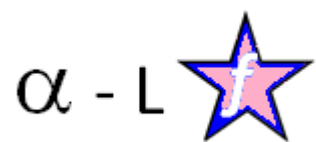


?-D-Ribopyranose

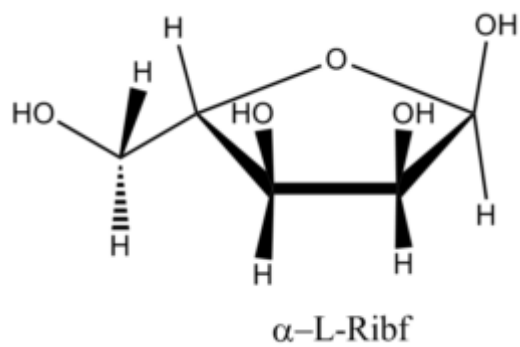


PDB

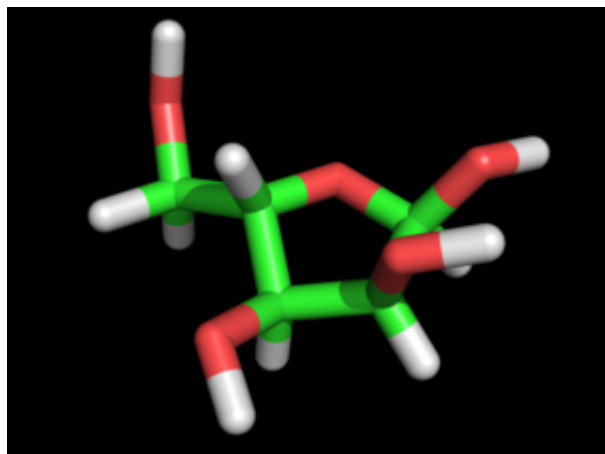
?-D-Ribopyranose



?-L-Ribofuranose



?-L-Ribofuranose



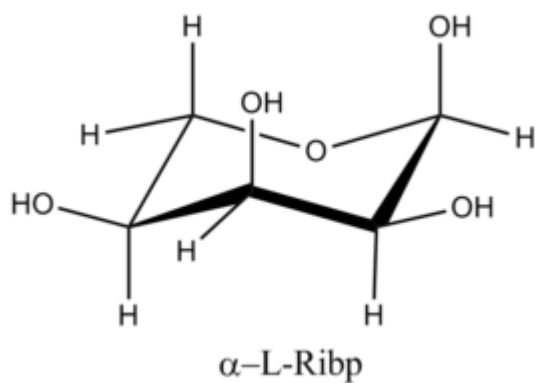
PDB



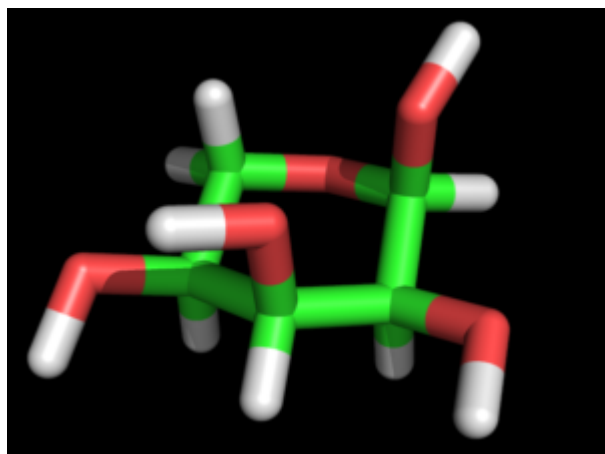
?-L-Ribofuranose



?-L-Ribopyranose



?-L-Ribopyranose



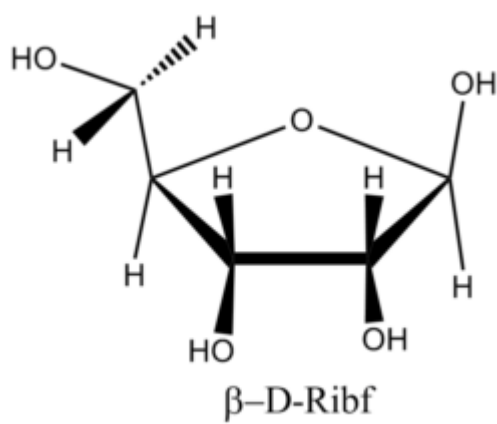
?-L-Ribopyranose

PDB

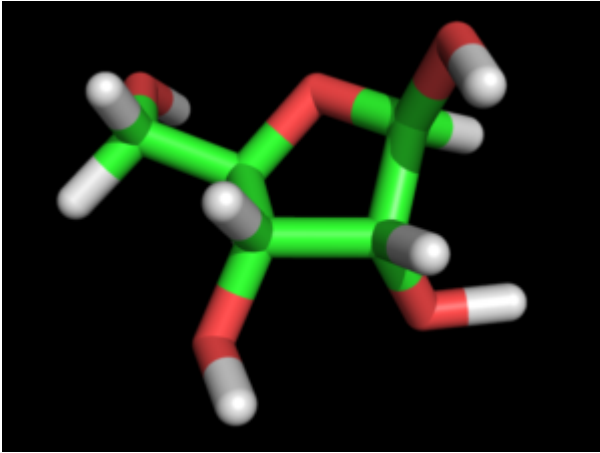
?-L-Ribopyranose



?-D-Ribofuranose



?-D-Ribofuranose

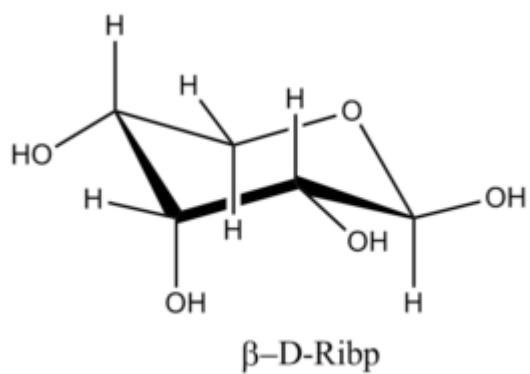


PDB

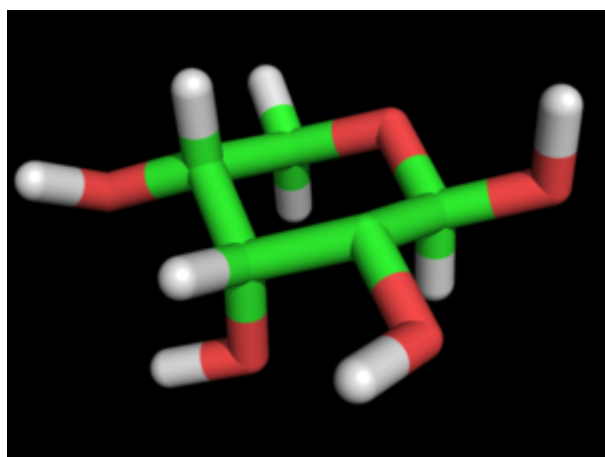
?-D-Ribofuranose



?-D-Ribopyranose



?-D-Ribopyranose



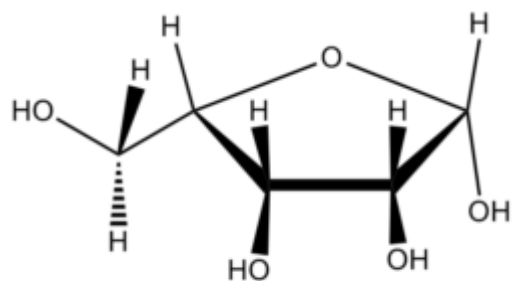
3D PDB

PDB

?-D-Ribopyranose

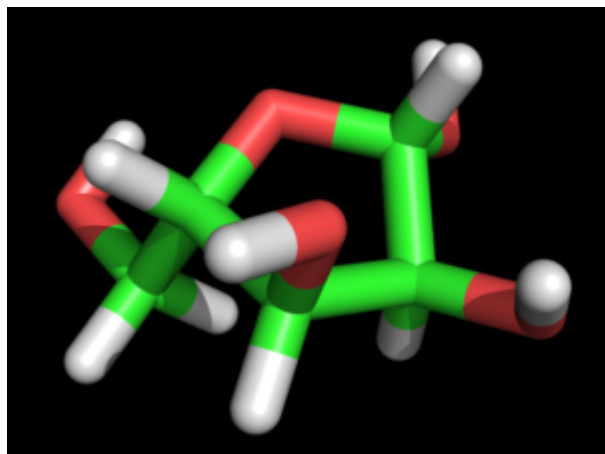


?-L-Ribofuranose



$\beta$ -L-Ribf

?-L-Ribofuranose

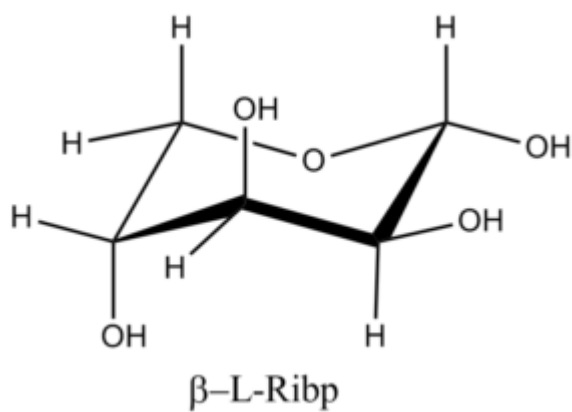


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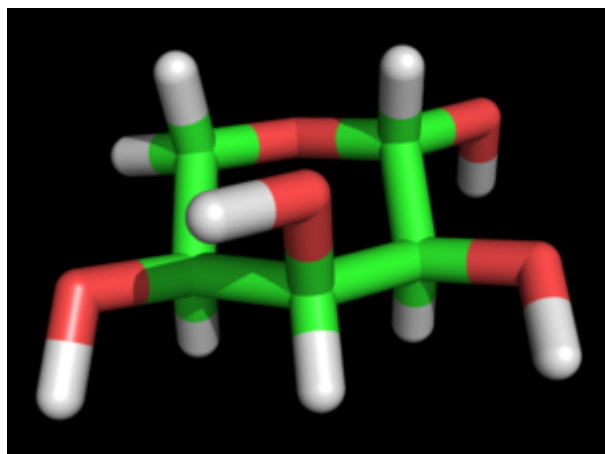
?-L-Ribofuranose



?-L-Ribopyranose



?-L-Ribopyranose



?-L-Ribopyranose

PDB

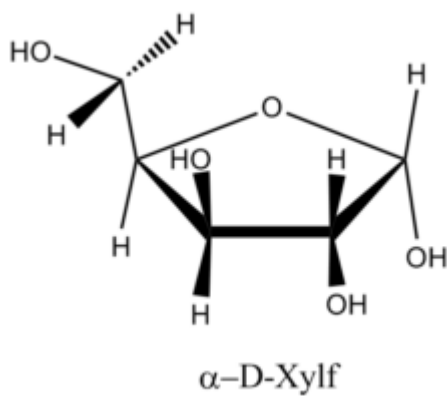
?-L-Ribopyranose

## XYLOSE

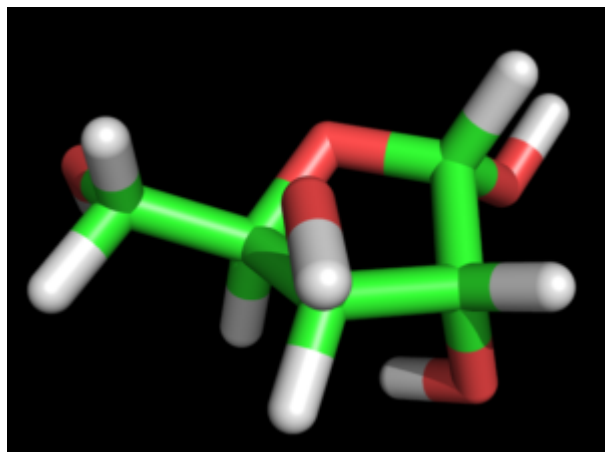
gets its name from Greek: "**Xylon**" : wood



?-D-Xylofuranose



?-D-Xylofuranose



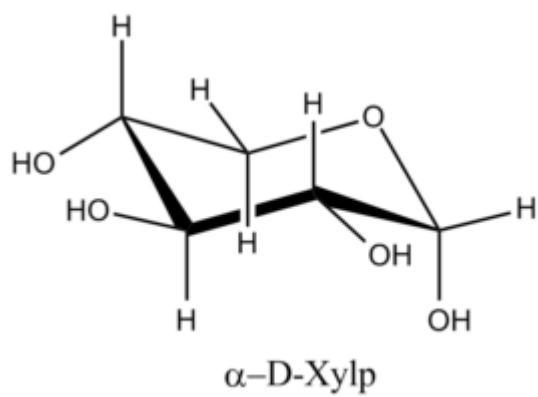
PDB

?-D-Xylofuranose

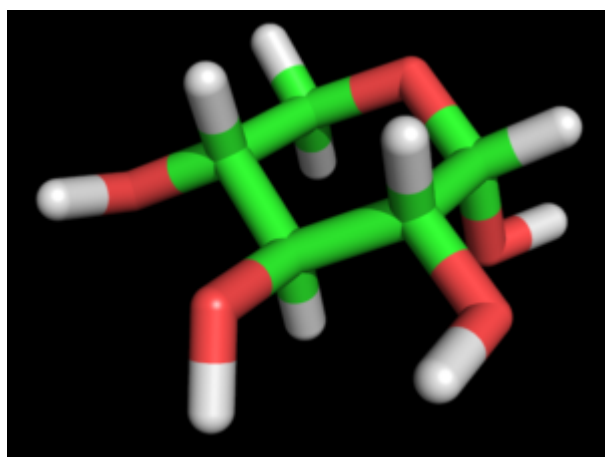


?-D-Xylopyranose





?-D-Xylopyranose

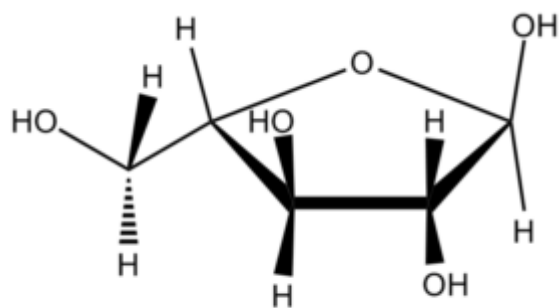


PDB

?-D-Xylopyranose

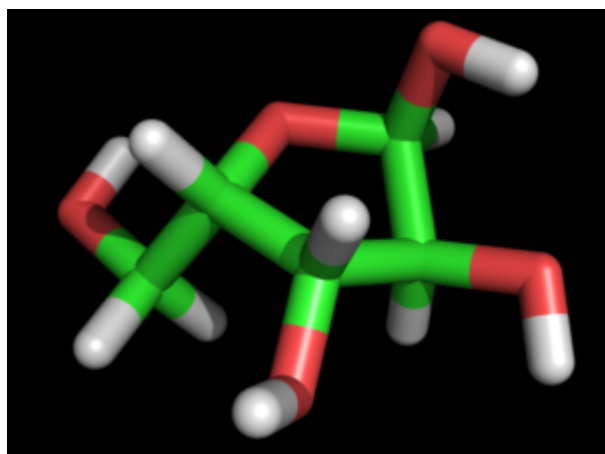


?-L-Xylofuranose



$\alpha$ -L-Xylf

?-L-Xylofuranose



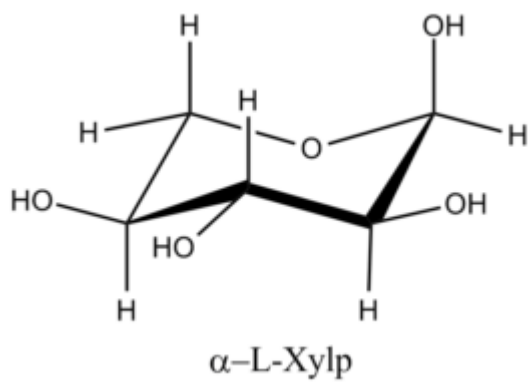
?-L-Xylofuranose

PDB

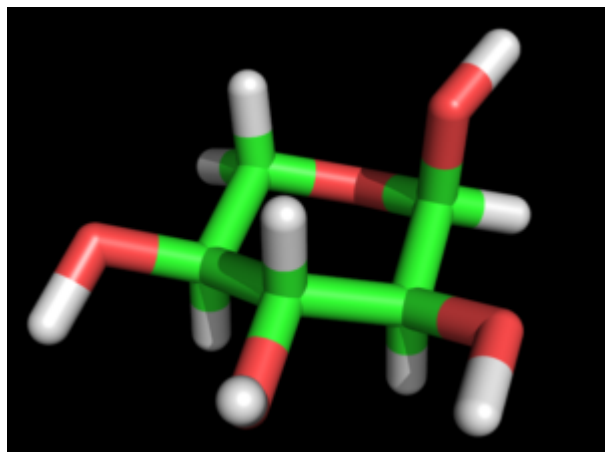
?-L-Xylofuranose



?-L-Xylopyranose



?-L-Xylopyranose

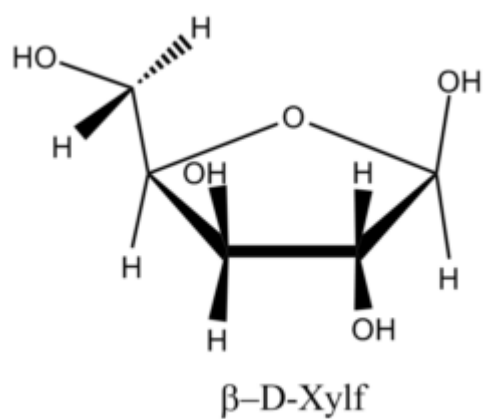


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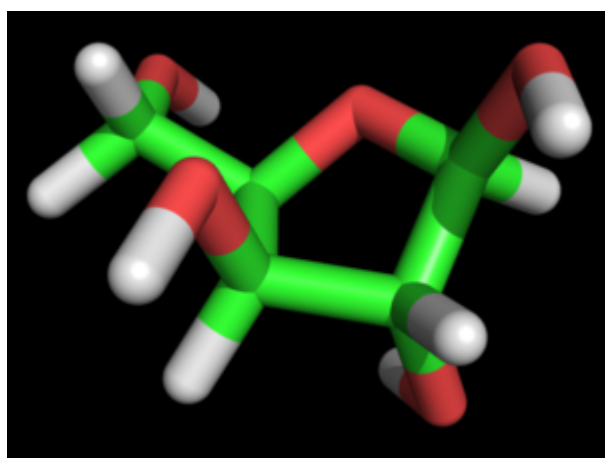
?-L-Xylopyranose



?-D-Xylofuranose



?-D-Xylofuranose

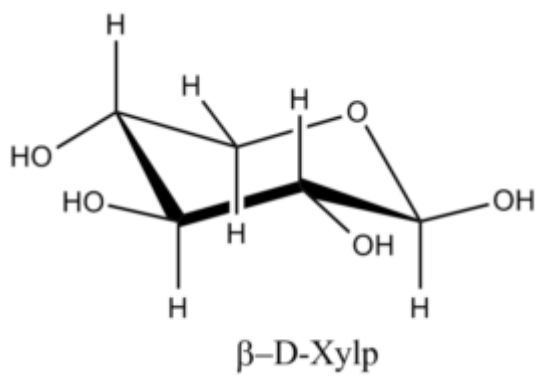


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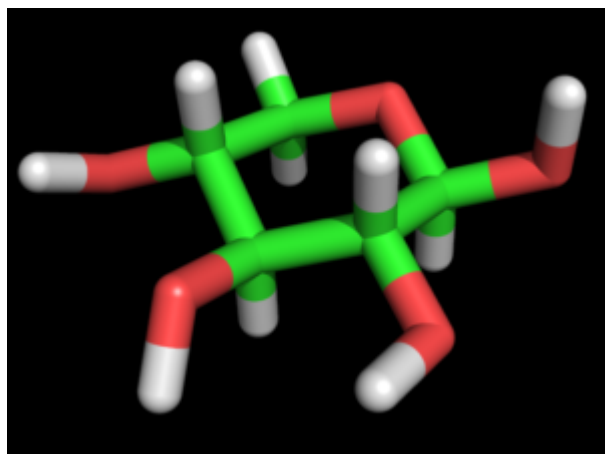
?-D-Xylofuranose



?-D-Xylofuranose



?-D-Xylofuranose



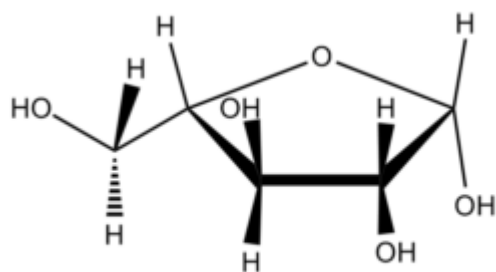
?-D-Xylofuranose

PDB

?-D-Xylofuranose

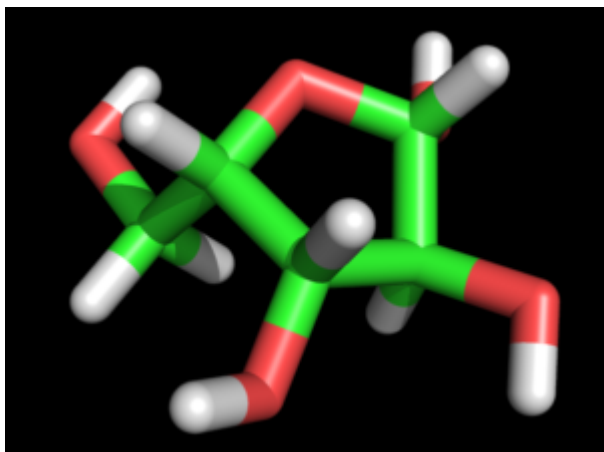


?-L-Xylofuranose



$\beta$ -L-Xylf

?-L-Xylofuranose



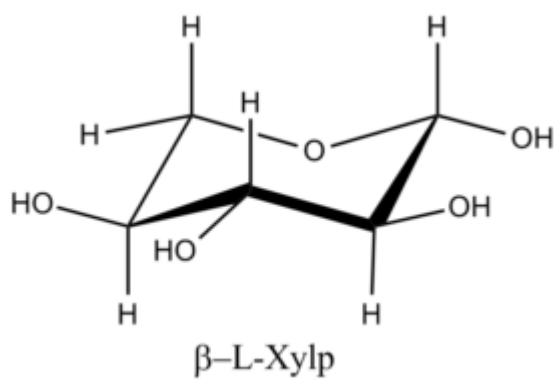
PDB

?-L-Xylofuranose

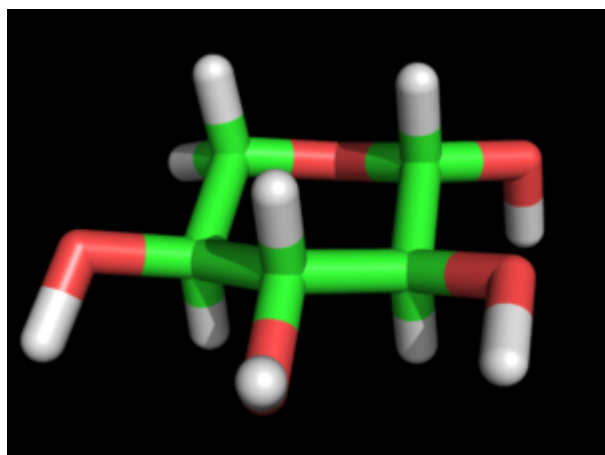


?-L-Xylopyranose





?-L-Xylopyranose



Chemical structure

PDB

?-L-Xylopyranose

### Category

1. News