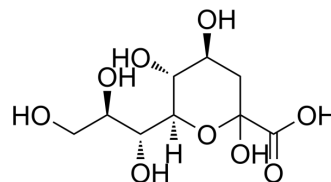


3-Deoxy-D-glycero-D-galacto-2-nonulosonic acid

Cat. No.:	HY-145533
CAS No.:	153666-19-4
Molecular Formula:	C ₉ H ₁₆ O ₉
Molecular Weight:	268.22
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

3-Deoxy-D-glycero-D-galacto-2-nonulosonic acid (KDN) is a sialic acid. 3-Deoxy-D-glycero-D-galacto-2-nonulosonic acid protects the oligo/(poly)sialyl chains from exosialidases at nonreducing terminal, and plays a role in egg activation of salmonid fish^[1]. 3-Deoxy-D-glycero-D-galacto-2-nonulosonic acid is abundant in fetal cord red blood cells and malignant human ovarian cancer cells^[2].

REFERENCES

[1]. Nadano D, et al., A naturally occurring deaminated neuraminic acid, 3-deoxy-D-glycero-D-galacto-nonulosonic acid (KDN). Its unique occurrence at the nonreducing ends of oligosialyl chains in polysialoglycoprotein of rainbow trout eggs. *J Biol Chem*. 1986 Sep 5;261(25):11550-7.

[2]. Inoue S, et al., Identification of free deaminated sialic acid (2-keto-3-deoxy-D-glycero-D-galacto-nononic acid) in human red blood cells and its elevated expression in fetal cord red blood cells and ovarian cancer cells. *J Biol Chem*. 1998 Oct 16;273(42):27199-204.

Caution: Product has not been fully validated for medical applications. For research use only.

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