

alpha-1,3-Galactosyltransferase (a1,3GalT)

Cat. No.:	HY-E70052	
CAS No.:	128449-51-4	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	alpha-1,3-Galactosyltransferase(a1,3GalT)
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY

Description	alpha-1,3-Galactosyltransferase (a1,3GalT) (GGTA1) catalyzes the generation of the α -gal glycan via the transfer of a galactose (Gal) in α 1-3 linkage, from a uridyl-diphosphate (UDP) donor onto the N-acetyllactosamine (Gal β 1,4GlcNAc-R) of glycoproteins. alpha-1,3-Galactosyltransferase (a1,3GalT) is responsible for the synthesis of the α -galactose (α -Gal) epitope found in most mammalian species ^[1] .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

- [1]. Sumnima Singh, et al. Loss of α -gal during primate evolution enhanced antibody-effector function and resistance to bacterial sepsis. *Cell Host Microbe*. 2021 Mar 10;29(3):347-361.e12.
- [2]. Anne-Laure Turcot-Dubois, et al. Long-term evolution of the CAZY glycosyltransferase 6 (ABO) gene family from fishes to mammals--a birth-and-death evolution model. *Glycobiology*. 2007 May;17(5):516-28.

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

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