

Product Information

MemDX™ Membrane Protein Human GAL3ST1 (Galactose-3-O-sulfotransferase 1) Full

Length

Cat. No.: **MPC4152K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human GAL3ST1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

GAL3ST1

Protein Length

Full length

Protein Class

Transferase

TMD

1

Sequence

MLPPQKKPWESMAKGLVLGALFTSFLLLVYSYAVPPLHAGLASTTPEAAA
SCSPPALEPEAVIRANGSAGECQPRRNIVFLKTHKTASSTLLNILFRFGQ
KHRLKFAFPNGRNDFDYPTFFARSLVQDYRPGACFNIICNHMRPHYDEV
GLVPTNAIFITVLRDPAFLFESSFHYFGPVVPLTWKLSAGDKLTEFLQDP
DRYYDPNGFNAHYLRNLLFFDLGYDNSLDPSSPQVQEHI LEVERRFHLVL
LQEYFDESLVLLKDLLCWELEDVLYFKLNARRDSPVRLSGELYGRATAW
NMLDSHLYRHFNASFWRKVEAFGRERMAREVAALRHANERMRTICIDGGH
AVDAAAIQDEAMQPWQPLGTSILGYNLKKSIGQRHAQLCRRMLTPEIQY
LMDLGANLWVTKLWKFIRDFLRW

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

GAL3ST1

Full Name

Galactose-3-O-sulfotransferase 1

Introduction

Sulfonation, an important step in the metabolism of many drugs, xenobiotics, hormones, and neurotransmitters, is catalyzed by sulfotransferases. This gene encodes galactosylceramide sulfotransferase, which catalyzes the sulfation of membrane glycolipids including the final step in the synthesis of sulfatide, a major lipid component of the myelin sheath. This gene exhibits elevated expression in ovarian epithelial carcinoma and the encoded enzyme exhibits elevated activity in renal cell carcinoma. Mutations in this gene may be associated with reduced insulin resistance. Alternative splicing results in multiple transcript variants.

Alternative Names

GAL3ST1; CST; galactosylceramide sulfotransferase; 3'-phosphoadenosine-5'-phosphosulfate:GalCer sulfotransferase; cerebroside (3'-phosphoadenylylsulfate:galactosylceramide 3') sulfotransferase; Galactose-3-O-sulfotransferase 1

Gene ID

[9514](#)

UniProt ID

[Q99999](#)