Data Sheet (Cat.No.TMPH-02907)

TargetMol

Sialidase-3 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Sialidase-3;Membrane sialidase;N-acetyl-alpha-neuraminidase 3;Ganglioside sialidase; Neu3
Protein Construction:	1-418 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9JMH7
Molecular Weight:	52.9 kDa (predicted)
AA Sequence:	MEEVPPYSLSSTLFQQEEQSGVTYRIPALLYLPPTHTFLAFAEKRTSVRDEDAACLVLRRGLMKGRSVQWGPQ RLLMEATLPGHRTMNPCPVWEKNTGRVYLFFICVRGHVTERCQIVWGKNAARLCFLCSEDAGCSWGEVKDLT EEVIGSEVKRWATFAVGPGHGIQLHSGRLIIPAYAYYVSRWFLCFACSVKPHSLMIYSDDFGVTWHHGKFIEPQ VTGECQVAEVAGTAGNPVLYCSARTPSRFRAEAFSTDSGGCFQKPTLNPQLHEPRTGCQGSVVSFRPLKMPN TYQDSIGKGAPATQKCPLLDSPLEVEKGAETPSATWLLYSHPTSKRKRINLGIYYNRNPLEVNCWSRPWILNR GPSGYSDLAVVEEQDLVACLFECGEKNEYERIDFCLFSDHEVLSCEDCTSPSSD

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Exo-alpha-sialidase that catalyzes the hydrolytic cleavage of the terminal sialic acid (N-acetylneuraminic acid,

Neu5Ac) of a glycan moiety in the catabolism of glycolipids, glycoproteins and oligosacharides. Displays high catalytic efficiency for gangliosides including alpha-(2->3)-sialylated GD1a and GM3 and alpha-(2->8)-sialylated GD3. Plays a role in the regulation of transmembrane signaling through the modulation of ganglioside content of the lipid bilayer and by direct interaction with signaling receptors, such as EGFR. Desialylates EGFR and activates downstream signaling in proliferating cells. Contributes to clathrin-mediated endocytosis by regulating sorting of endocytosed receptors to early and recycling endosomes.

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