Recombinant Human GNS Protein (His Tag)

Catalog Number:PKSH032779

Note: Centrifuge before opening to ensure complete recovery of vial contents.

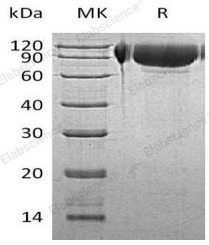
Description

Synonyms	N-Acetylglucosamine-6-Sulfatase;Glucosamine-6-Sulfatase;G6S;GNS
Species	Human
Expression Host	HEK293 Cells
Sequence	Val37-Leu552
Accession	P15586
Calculated Molecular Weight	59.4 kDa
Observed molecular weight	87 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

N-Acetylglucosamine-6-Sulfatase is a member of the Sulfatase family. N-Acetylglucosamine-6-Sulfatase is required for the lysosomal degradation of the Glycosaminoglycans (GAG) Heparan Sulfate and Keratan Sulfate. N-Acetylglucosamine-6-Sulfatase hydrolyzes the 6-Sulfate groups of the N-Acetyl-D-Glucosamine 6-Sulfate units of Heparan Sulfate and Keratan Sulfate. N-Acetylglucosamine-6-Sulfatase binds 1 Calcium ion per subunit. N-Acetylglucosamine-6-Sulfatase deficiency are the cause of Mucopolysaccharidosis Type 3D (MPS3D), an inborn error leading to lysosomal accumulation of heparan sulfate. MPS3D has profound mental deterioration, hyperactivity, and relatively mild somatic manifestations.

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