

Recombinant Protein Technical Manual Recombinant Human GNS Protein (His Tag)

RPES5106

Product Data:

Product SKU: RPES5106 **Size:** 10μg

Species: Human Cells

Uniprot: P15586

Protein Information:

Molecular Mass: 59.4 kDa

AP Molecular Mass: 87 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ 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 TrisHCl, 150mM NaCl,10%

Glycerol,pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: N-Acetylglucosamine-6-Sulfatase; Glucosamine-6-Sulfatase; G6S; GNS

Immunogen Information:

Sequence: Val37-Leu552

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.