



Recombinant Protein Technical Manual

Recombinant Human SGSH Protein (His Tag)

RPES0718

Product Data:

Product SKU: RPES0718

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P51688

Protein Information:

Molecular Mass: 55.7 kDa

AP Molecular Mass: 63 kDa

Tag: C-6His

Bio-activity:

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

Endotoxin: < 1.0 EU per µg 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, 1mM GaCl₂, 10% Glycerol, pH7.5.

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

Application:

Synonyms: N-Sulphoglucosamine Sulphohydrolase; Sulfoglucosamine Sulfamidase; Sulphamidase; SGSH; HSS

Immunogen Information:

Sequence: Arg21-Leu502

Background:

N-Sulphoglucosamine Sulphohydrolase (SGSH) is an important member of the sulfatase family which is involved in the degradation of heparin sulfate. SGSH binds one calcium ion per subunit as a cofactor. SGSH catalyzes N-sulfo-D-glucosamine and H₂O to D-glucosamine and sulfate. SGSH deficiency is result in mucopolysaccharidosis type 3A (MPS3A), a recessive lysosomal storage disease characterized by neurological dysfunction but relatively mild somatic manifestations.