

# Recombinant Human SGSH Protein (His Tag)

Catalog Number:PKSH032823



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

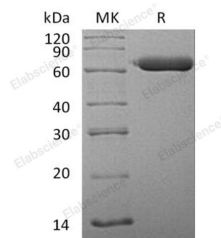
## Description

<b>Synonyms</b>	N-Sulphoglucosamine Sulphohydrolase;Sulfoglucosamine Sulfamidase;Sulphamidase;SGSH;HSS
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Arg21-Leu502
<b>Accession</b>	P51688
<b>Calculated Molecular Weight</b>	55.7 kDa
<b>Observed molecular weight</b>	63 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM CaCl <sub>2</sub> , 10% Glycerol, pH 7.5.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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 H<sub>2</sub>O 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.

## For Research Use Only

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