

Sulfamidase (SGSH)

Product Information

Cat#	DIA-879
Descriptions	Sulfamidase (SGSH) is a lysosomal sulfatase that hydrolyzes the N-sulfate groups of glucosamine residues in heparan sulfate, mediates glycosaminoglycan catabolism, and is the deficient enzyme in mucopolysaccharidosis type IIIA (Sanfilippo A syndrome).
Applications	Sulfamidase (SGSH) is applied in mucopolysaccharidosis type IIIA detection kits and glycosaminoglycan metabolism assay reagent development.
CAS No.	31-0-1166
Enzyme Commission Number	EC 3.10.1.1
Enzyme Source	Trichoplusia ni, High Five (baculovirus)-derived human Sulfamidase/SGSH protein.
Reaction	$\text{H}_2\text{O} + \text{N-sulfo-D-glucosamine} = \text{D-glucosamine} + \text{sulfate}$
Activity Definition	Measured by its ability to hydrolyze the substrate 4-Nitrocatechol Sulfate (PNCS) under the described conditions.