Creative Enzymes
Diagnostic Enzymes

Iduronate 2-Sulfatase (IDS)

Product Information

Cat#	DIA-752
Descriptions	Iduronate 2-Sulfatase (IDS) is a lysosomal sulfatase that removes 2-O-sulfate groups from iduronic acid residues in heparan sulfate and dermatan sulfate, mediates glycosaminoglycan degradation, and is the causative enzyme of Hunter syndrome (mucopolysaccharidosis type II).
Applications	Iduronate 2-Sulfatase (IDS) serves as a key raw material for Hunter syndrome detection kits and glycosaminoglycan metabolism assay reagent development.
CAS No.	31-6-1364
Enzyme Commission Number	EC 3.1.6.13
Enzyme Source	Trichoplusia ni, High Five (baculovirus)-derived human Iduronate 2-Sulfatase/IDS protein.
Reaction	Hydrolysis of the 2-sulfate groups of the L-iduronate 2-sulfate units of dermatan sulfate, heparan sulfate and heparin.
Activity Definition	Measured by its ability to hydrolyze the substrate 4-Nitrocatechol Sulfate (PNCS) under the described conditions.

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