

Recombinant Human IDS Protein, Full Length, C-10×His tagged

Cat. No. IDS-18HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IDS Protein (Full Length) with C-10×His tag was expressed in Mouse myeloma cell line.
Species	Human
Source	Mouse myeloma cell
ProteinLength	Full Length
Description	This gene encodes a member of the sulfatase family of proteins. The encoded preproprotein is proteolytically processed to generate two polypeptide chains. This enzyme is involved in the lysosomal degradation of heparan sulfate and dermatan sulfate. Mutations in this gene are associated with the X-linked lysosomal storage disease mucopolysaccharidosis type II, also known as Hunter syndrome. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.
Bio-activity	Measured by its ability to hydrolyze the substrate 4-Nitrocatechol Sulfate (PNCS). The specific activity is > 1.0 pmol/min/μg, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 61 kDa SDS-PAGE: Multiple bands between 74-91 kDa, reducing conditions
Endotoxin	<1.0 EU/μg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
N-terminal Sequence Analysis	Ser26
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
Shipping	The product is shipped with polar packs.
References	1. Wilson, P.J. et al. (1990) Proc. Natl. Acad. Sci. USA 87:8531. 2. Parenti, G. et al. (1997) Curr. Opin. Genet. & Dev. 7:386. 3. Neufeld, E.F. and Muenzer, J. (2001) in The Metabolic and Molecular Basis of Inherited Disease, Scriver, C.R. et al. (eds.) pp. 3421, New York, McGraw-Hill.

GENE INFORMATION

Gene Name	IDS iduronate 2-sulfatase [Homo sapiens (human)]
Official Symbol	IDS
Synonyms	IDS; iduronate 2-sulfatase; ID2S; MPS2; SIDS; iduronate 2-sulfatase; alpha-L-iduronate sulfate sulfatase; iduronate 2-sulfatase 14 kDa chain; iduronate 2-sulfatase 42 kDa chain; idursulfase; EC 3.1.6.13
Gene ID	3423

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mRNA Refseq	NM_000202
Protein Refseq	NP_000193
MIM	300823
UniProt ID	P22304

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