Active Recombinant Human IDS Protein, His-tagged

Cat. No. IDS-211H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IDS precursor (NP_000193.1) (Met 1-Pro 550) was expressed with a C-terminal polyhistidine tag.
Species	Human
Source	HEK293
ProteinLength	1-550 a.a.
Predicted N Terminal	Ser 26
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its ability to hydrolyze the substrate 4-Nitrocatechol Sulfate (PNCS).The specific activity is >1.0 pmoles/min/μg.
Molecular Mass	The secreted recombinant human IDS with the propeptide consists of 536 amino acids after removal of the signal peptide and has a predicted molecular mass of 61 kDa. In SDS-PAGE under reducing conditions, it migrates as several bands with apparent molecular mass between 85-95 KDa due to glycosylation.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	>87 % as determined by SDS-PAGE.

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Stability	Samples are stable for up to twelve months from date of receipt at -70ºC.
Storage	Store it under sterile conditions at -20ºC~-70ºC. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IDS iduronate 2-sulfatase [Homo sapiens]
Official Symbol	IDS
Synonyms	IDS; iduronate 2-sulfatase; SIDS; Hunter syndrome; idursulfase; iduronate 2-sulfatase 14 kDa chain; iduronate 2-sulfatase 42 kDa chain; alpha-L-iduronate sulfate sulfatase; MPS2;
Gene ID	3423
mRNA Refseq	NM_000202
Protein Refseq	NP_000193
MIM	300823
UniProt ID	P22304
Chromosome Location	Xq27.3-q28

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Pathway	Dermatan sulfate degradation, organism-specific biosystem; Dermatan sulfate degradation, conserved biosystem; Glycosaminoglycan degradation, organism-specific biosystem; Glycosaminoglycan degradation, conserved biosystem; Heparan sulfate degradation, organism-specific biosystem; Heparan sulfate degradation, conserved biosystem; Lysosome, organism-specific biosystem;

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