
Product Data Sheet

Product Name: IDS Human
 Cat. No.: GP21825
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Iduronate 2-Sulfatase; Alpha-L-Iduronate Sulfate Sulfatase; SIDS; Iduronate 2-Sulfatase 14 KDa Chain; Iduronate 2-Sulfatase 42 KDa Chain; Hunter Syndrome; EC 3.1.6.13; MPS2; Iduronate 2-sulfatase; Alpha-L- iduronate sulfate sulfatase.		
Amino Acid Sequence	SETQANSTTD ALNVLLIIVD DLRPSLGCYG DKLVRSPNID QLASHSLLFQNAFAQQAVCA PSRVSFLTGR RPDTRRLYDF NSYWRVHAGN FSTIPQYFKE NGYVTMSVGK VFHPGISSNHTDDSPYSWSF PPYHPSSEKY ENTKTCRGPD GELHANLLCP VDVLDVPEGT LPDKQSTEQAIQLLEKMKTS ASPFFLAVGY HKPHIPFRYP KEFQKLYPLE NITLAPDPEVPDGLPPVAYN PWMDIRQRED VQALNISVPY GPIPVDFQRK IRQSYFASVS YLDTQVGRLL SALDDLQLANSTIIAFTSDH GWALGEGHEW AKYSNFDVAT HVPLIFYVPG RTASLPEAGE KLFYLDPFDSASQLMEPGR QSMDLVELVS LFPTLAGLAG LQVPPRCPPV SFHVELCREGKNLLKHFRFR DLEEDPYLPG NPRELIAYSQ YPRPSDIPQW NSDKPSLKDI KIMGYSIRTI DYRYTVWVGFNPDEFLANFS DIHAGELYFV DSDPLQDHNM YNDSQGGDLF QLLMPLEHHH HHH.		
Formulation	IDS protein solution (0.25mg/ml) containing PhosphateBuffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Iduronate 2-Sulfatase also known as IDS, belongs to the highly-conserved sulfatase family of enzymes which catalyze the hydrolysis of O-sulfate and N-sulfate esters from a variety of substrates. IDS is essential for the lysosomal degradation of the glycosaminoglycans (GAG) heparan sulfate as well as dermatan sulfate. Furthermore, IDS hydrolyzes the 2-sulfate group of the IDS units of the GAG.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

IDS Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 533 amino acids (26-550a.a) and having a molecular mass of 60.3kDa. (Molecular size on SDS-PAGE will appear at approximately 35-70kDa). IDS is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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