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32-6811: IDS Human

Alternative Name :	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.

Description

Source: Sf9, Baculovirus cells.
Sterile Filtered clear solution.
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-salfate 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.
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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	IDS protein solution (0.25mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.
Storage condition :	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.
Amino Acid :	SETQANSTTD ALNVLLIIVD DLRPSLGCYG DKLVRSPNID QLASHSLLFQ NAFAQQAVCA PSRVSFLTGR RPDTTRLYDF NSYWRVHAGN FSTIPQYFKE NGYVTMSVGK VFHPGISSNH TDDSPYSWSF PPYHPSSEKY ENTKTCRGPD GELHANLLCP VDVLDVPEGT LPDKQSTEQA IQLLEKMKTS ASPFFLAVGY HKPHIPFRYP KEFQKLYPLE NITLAPDPEV PDGLPPVAYN PWMDIRQRED VQALNISVPY GPIPVDFQRK IRQSYFASVS YLDTQVGRLL SALDDLQLAN STIIAFTSDH GWALGEHGEW AKYSNFDVAT HVPLIFYVPG RTASLPEAGE KLFPYLDPFD SASQLMEPGR QSMDLVELVS LFPTLAGLAG LQVPPRCPVP SFHVELCREG KNLLKHFRFR DLEEDPYLPG NPRELIAYSQ YPRPSDIPQW NSDKPSLKDI KIMGYSIRTI DYRYTVWVGF NPDEFLANFS DIHAGELYFV DSDPLQDHNM YNDSQGGDLF QLLMPLEHHH HHH.

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