

Recombinant human Iduronate 2-Sulfatase protein

Catalog Number: ATGP3462

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

26-550aa

UniProt No.

P22304

NCBI Accession No.

NP_000193

Alternative Names

Iduronate 2-sulfatase isoform, IDS, MPS2, SIDS

PRODUCT SPECIFICATION

Molecular Weight

60.3 kDa (533aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

IDS, as known as iduronate 2-sulfatase isoform, is a member of the highly conserved sulfatase family of enzymes that catalyze the hydrolysis of O-sulfate and N-sulfate esters from a variety of substrates. This protein is required for the lysosomal degradation of the glycosaminoglycans (GAG) heparan sulfate and dermatan sulfate. It hydrolyzes the 2-sulfate group of the IDS units of the GAG. Recombinant human IDS, fused to His-tag at C-

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terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

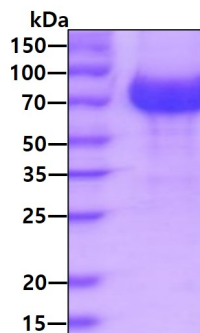
SETQANSTTD ALNVLIIIVD DLRPSLGCYG DKLVRSPNID QLASHSLLFQ NAFAQQAVCA PSRVSFLTGR RPDTRRLYDF
NSYWRVHAGN FSTIPQYFKE NGYVTMSVGK VFHPGISSNH TDDSPYSWSF PPYHPSSEKY ENTKTCRGPD GELHANLLCP
VDVLDVPEGT LPDKQSTEQA IQLLEKMKTS ASPFFLAVGY HKPHIPFRYP KEFQKLYPLE NITLAPDPEV PDGLPPVAYN
PWMDIRQRED VQALNISVPY GPIPVDFQRK IRQSYFASVS YLDTQVGRLL SALDDLQLAN STIIAFTSDH GWALGEHGEW
AKYSNFDVAT HVPLIFYVPG RTASLPEAGE KLFYLDPFD SASQLMEPGR QSMDLVELVS LFPTLAGLAG LQVPPRCVPV
SFHVELCREG KNLLKHFRFR DLEEDPYLPG NPRELAYSQ YPRPSDIPQW NSDKPSLKDI KIMGYSIRTI DYRYTVWVGF
NPDEFLANFS DIHAGELYFV DSDPLQDHNM YNDSQGGDLF QLLMP<LEHHH HHH>

General References

Torres LC., et al, (2014) Clin. Immunol. 154:100-104.
Chistiakov DA., et al, (2014) J. Genet. Genomics. 41:197-203.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.