

IDS, 26-550aa, Human, His-tag, Baculovirus

Cat.NO.: TP02563

3th Edition

Synonyms:Iduronate 2-sulfatase isoform, IDS, MPS2, SIDS

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

Form:Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

Molecular Weight:60.3kDa (533aa), 50-70kDa (SDS-PAGE under reducing conditions.)

Sequences:

SETQANSTTDALNVLLIIVDDLRLPSLGCYGDKLVRSPNIDQLASHLLFQNAFAQQAVCAPSRVSFLTGRRPDTRRL
YDFNSYWRVHAGNFSTIPQYFKENGYVTMSVGKVFHHPGISSNHTDDSPYSWSFPPYHPSSEKYENTKTCRGPDG
ELHANLLCPVDVLDVPEGTLDPKQSTEQAIQLLEKMKTSASPFFLAVGYHKPHIPFRYPKEFQKLYPLENITLAPDPE
VPDGLPPVAYNPWMDIRQREDVQALNISVPYGPVDFQRKIRQSYFASVSYLDTQVGRLLSALDDLQLANSTIIAFT
SDHGWALGEHGEWAKYSNFDVATHVPLIFYVPGRTASLPEAGEKLFYLDPFDSASQLMEPGRQSM DLVELVSLF
PTLAGLAGLQVPPRCVPVPSFHVLCREGKNLLKHFRFRDLEEDPYLPGNP RELIAYSQYPRPSDIPQWNSDKPSLK
DIKIMGYSIRTIDYRYTVWVGFPNDEF LANFSDIHAGELYFVDS DPLQDHNMYNDSQGGDLFQLLMPLEHHHHHH

Purity:> 95% by HPLC

Concentration:0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.