

Recombinant Human IDS Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. IDS-093H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

IDS MS Standard C13 and N15-labeled recombinant protein (NP_000193) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

This gene encodes a member of the sulfatase family of proteins. The encoded preproprotein is proteolytically processed to generate two polypeptide chains. This enzyme is involved in the lysosomal degradation of heparan sulfate and dermatan sulfate. Mutations in this gene are associated with the X-linked lysosomal storage disease mucopolysaccharidosis type II, also known as Hunter syndrome. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.

Molecular Mass

61.87 kDa

AA Sequence

MPPPRTRGRLLWLGLVLSSVCVALGSETQANSTTDALNVLLIIVDDLRLPSLGCYGDK
 LVRSPNIDQLASHLLFQNAFAQQAVCAPSRVSFLTGRRPDTRLYDFNSYWRVHA
 GNFSTIPQYFKENGYVTMSVGKVFHPGISSNHTDDSPYSWSFPPYHPSSEKYENTK
 TCRGPDGELHANLLCPVDVLDVPEGLPDKQSTEQAIIQLEKMKTSASPFLLAVGYH
 KPHIPFRYPKEFQKLYPLENITLAPDPEVPDGLPPVAYNPWMDIRQREDVQALNISVP
 YGPIPVDFQRKIRQSYFASVSYLDTQVGRLLSALDDLQLANSTIIAFTSDHGWALGEH

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GEWAKYSNFDVATHVPLIFYVPGRTASLPEAGEKLFYLDPFDSASQLMEPGRQSM
 DLVELVSLFPTLAGLAGLQVPPRCVPVPSFHVELCREGKNLLKHFRFRDLEEDPYLPG
 NPRELIAYSQYPRPSDIPQWNSDKPSLKDIKIMGYSIRTIDYRYTVWVGFNPDEFLAN
 FSDIHAGELYFVDSPLQDHNMYNDSQGGDLFQLLMPTRTRPLEQKLISEEDLAAND
 ILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [IDS iduronate 2-sulfatase \[Homo sapiens \(human\) \]](#)

Official Symbol [IDS](#)

Synonyms IDS; iduronate 2-sulfatase; MPS2; SIDS; iduronate 2-sulfatase; alpha-L-iduronate sulfate sulfatase; iduronate 2-sulfatase 14 kDa chain; iduronate 2-sulfatase 42 kDa chain; idursulfase; EC 3.1.6.13

Gene ID [3423](#)

mRNA Refseq [NM_000202](#)

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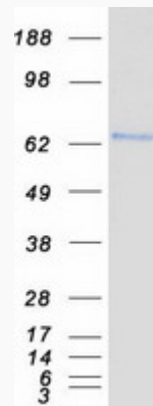
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Protein Refseq NP_000193

MIM 300823

UniProt ID P22304

SDS-PAGE



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