Recombinant Human Iduronate 2-sulfatase (IDS)

Product Code	CSB-BP010998HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P22304
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	TDALNVL LIIVDDLRPS LGCYGDKLVR SPNIDQLASH SLLFQNAFAQ QAVCAPSRVS FLTGRRPDTT RLYDFNSYWR VHAGNFSTIP QYFKENGYVT MSVGKVFHPG ISSNHTDDSP YSWSFPPYHP SSEKYENTKT CRGPDGELHA NLLCPVDVLD VPEGTLPDKQ STEQAIQLLE KMKTSASPFF LAVGYHKPHI PFRYPKEFQK LYPLENITLA PDPEVPDGLP PVAYNPWMDI RQREDVQALN ISVPYGPIPV DFQRKIRQSY FASVSYLDTQ VGRLLSALDD LQLANSTIIA FTSDHGWALG EHGEWAKYSN FDVATHVPLI FYVPGRTASL PEAGEKLFPY LDPFDSASQL MEPGRQSMDL VELVSLFPTL AGLAGLQVPP RCPVPSFHVE LCREGKNLLK HFRFRDLEED PYLPG
Source	Baculovirus
Target Names	IDS
Protein Names	Recommended name: Iduronate 2-sulfatase EC= 3.1.6.13 Alternative name(s): Alpha-L-iduronate sulfate sulfatase Short name= Idursulfase Cleaved into the following 2 chains: 1. Iduronate 2-sulfatase 42 kDa chain 2. Iduronate 2-s
Expression Region	34-455
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	Iduronate-2-sulfatase is required for the lysosomal degradation of heparan sulfate and dermatan sulfate. Mutations in this X-chromosome gene that result in enzymatic deficiency lead to the sex-linked Mucopolysaccharidosis Type II, also known as Hunter Syndrome. Iduronate-2-sulfatase has a strong sequence similarity with human arylsulfatases A, B, and C, and human glucosamine-6-sulfatase. Multiple alternatively spliced transcript variants that encode different protein isoforms have been described.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.