

Recombinant Human IDUA Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. IDUA-6320H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IDUA MS Standard C13 and N15-labeled recombinant protein (NP_000194) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an enzyme that hydrolyzes the terminal alpha-L-iduronic acid residues of two glycosaminoglycans, dermatan sulfate and heparan sulfate. This hydrolysis is required for the lysosomal degradation of these glycosaminoglycans. Mutations in this gene that result in enzymatic deficiency lead to the autosomal recessive disease mucopolysaccharidosis type I (MPS I).
Molecular Mass	72.67 kDa
AA Sequence	MRPLRPRAALLALLASLLAAPPVAPAEAPHLVHVDAARALWPLRRFWRSTGFCPPL PHSQADQYVLSWDQQLNLAYVGAVPHRGIKQVRTHWLLELVTTTRGSTGRGLSYNF THLDGYLDLLRENQLLPGFELMGSAAGHFTDFEDKQQVFWDKDLVSSLARRYIGRY GLAHVSKWNFETWNEPDHHDNDVSMQGMFLNYYDACSEGLRAASPALRLGGP GDSFHTPPRSPLSWGLLRHCHDGTNFFTGEAGVRLDYISLHRKGARSSISILEQEKV VAQQIRQLFPKFADTPIYNDEADPLVGWSLPQPWRADVYAAMVVKVIAQHQNLLLA NTTSAFPYALLSNDNAFLSYHPHPFAQRTLTAHFQVNNTRPPHVQLLRKPVLTAMGL LALLDEEQLWAEVSQAGTVLDSNHTVGVLASAHRPQGPADAWRAAVLIYASDDTRA

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HPNRSVAVTLRLRGVPPGPGGLVYVTRYLDNGLCSPDGEWRRLGRPVFPTAEQFRR
MRAAEDPVAAAPRPLPAGGRLTLRPALRLPSLLLHVHVCARPEKPPGQVTRLRALPLT
QGQLVLVWSDEHVGSKCLWTYEIQFSQDGKAYTPVSRKPSTFNLVVFSPDTGAVSG
SYRVRALDYWARPGPFSDPVYPYLEVPVPRGPPSPGNPSGPTRTRRLEQKLISEEDL
AANDILDYKDDDDKV

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 IDUA alpha-L-iduronidase [Homo sapiens (human)]

Official Symbol IDUA

Synonyms IDUA; iduronidase, alpha-L-; alpha-L-iduronidase; MPS1; IDA;

Gene ID 3425

mRNA Refseq NM_000203

Protein Refseq NP_000194

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MIM	252800
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UniProt ID	P35475
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