

Recombinant Full Length Human IDUA Protein, C-Flag-tagged

Cat. No. IDUA-458HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human IDUA Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Not mentioned
Molecular Mass	70 kDa
AA Sequence	MRPLRPRAALLALLASLLAAPPVAPAEAPHLVHVDAARALWPLRRFWRSTGFCPPL PHSQADQYVLSWDQ QLNLAYVGAVPHRGIKQVRTHWLLELVTTRGSTGRGLSYNF THLDGYLDLLRENQLLPGFELMGASGHF TDFEDKQQVFEWKDLVSSLARRYIGRY GLAHVSKWNFETWNEPDHHDFFDNVSMTMQGFLNYYDACSEGLR AASPALRLGGP GDSFHTPPRSPLSWGLLRHCHDGTNFFTGEAGVRLDYISLHRKGARSSISILEQEKV VA QQIRQLFPKFADTPIYNDEADPLVGWVSLPQPWRADVTYAAMVVKVIAQHQNLLL

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ANTTSAPFPYALLSNDN AFLSYHHPFAQRTLRTARFQVNNTRPPHVQLLRKPVLTAM
 GLLALLDEEQLWAEVSQAGTVLDSNHTVGV LASAHRPQGPADAWRAAVLIYASDD
 TRAHPNRSVAVTLRLRGVPPGGLVYVTRYLDNGLCSPDGEWRRL GRPVFPTAEQ
 FRRMRAAEDPVAAAPRPLPAGGRLTLRPALRLPSLLLHVHVCARPEKPPGQVTRLRA
 LPLT QGQLVLVWSDEHVGSKCLWTYEIQFSQDGKAYTPVSRKPSTFNLVVFSPDTG
 AVSGSYRVRALDYWARPG
 PFSDPVYPYLEVPVPRGPPSPGNPSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Glycosaminoglycan degradation, Lysosome, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

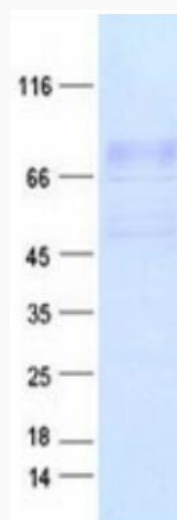
Gene Name	IDUA alpha-L-iduronidase [Homo sapiens (human)]
Official Symbol	IDUA

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Synonyms	IDA; MPS1; MPSI
Gene ID	3425
mRNA Refseq	NM_000203.5
Protein Refseq	NP_000194.2
MIM	252800
UniProt ID	P35475



Coomassie blue staining of purified IDUA protein.