

## Active Recombinant Human IDUA, His-tagged

Cat. No. IDUA-27H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human IDUA (Ala26Pro653), fused with 10*his tag at C-terminal, was expressed in Mouse NSO Cells, 71 kDa .
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	26-653 a.a.
<b>Description</b>	<p><math>\alpha</math>-L-Iduronidase encoded by the IDUA gene is an important enzyme required for the lysosomal degradation of glycosaminoglycans (GAGs). It hydrolyzes the non-reducing terminal <math>\alpha</math>-L-iduronic acid residues in GAGs including dermatan sulfate and heparan sulfate. Mutations in IDUA that result in enzymatic deficiency lead to the autosomal recessive disease mucopolysaccharidosis type I (MPS I). MPS I causes progressive cellular, tissue and organ damage, and several clinical studies using enzyme replacement therapy have shown promising benefit.</p>
<b>Form</b>	Supplied as a 0.2 $\mu$ m filtered solution in Sodium Acetate and NaCl.
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Activity</b>	Measured by its ability to cleave a fluorogenic substrate, 4Methylumbelliferyl $\alpha$ Liduronide. The specific activity is >7,500 pmol/min/g.
<b>EndotoxinLevel</b>	<1.0 EU per 1

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	µg of the protein by the LAL method
<b>Storage</b>	6 months from date of receipt, 20 to 70 °C as supplied; 3 months, 20 to 70 °C under sterile conditions after opening.
<b>OfficialSymbol</b>	IDUA
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	IDUA iduronidase, alpha-L- [ Homo sapiens ]
<b>Synonyms</b>	IDUA;iduronidase, alpha-L-; IDA; MPS1; Alpha-L-iduronidase; EC 3.2.1.76; OTTHUMP000002173092; OTTHUMP00000112666; α-L-iduronidase precursor
<b>Gene ID</b>	3425
<b>mRNA Refseq</b>	NM_000203
<b>Protein Refseq</b>	NP_000194
<b>MIM</b>	252800
<b>UniProt ID</b>	P35475
<b>Chromosome Location</b>	4p16.3
<b>Pathway</b>	Dermatan sulfatedegradation; Dermatan sulfate degradation; Glycosaminoglycan degradation; Glycosaminoglycan degradation; Heparan sulfate degradation; Heparan sulfatedegradation; Lysosome; Metabolic pathways

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**Function**

L-iduronidaseactivity; cation binding

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