Active Recombinant Human IDUA, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human IDUA (Ala26Pro653), fused with 10*his tag at C-terminal, was expressed in Mouse NSO Cells, 71 kDa .
Species	Human
Source	Mammalian Cells
ProteinLength	26-653 a.a.
Description	α-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 α-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.
Form	Supplied as a 0.2 μm filtered solution in Sodium Acetate and NaCl.
Purity	> 95% as determined by SDS-PAGE
Activity	Measured by its ability to cleave a fluorogenic substrate, 4Methylumbelliferyl αLiduronide. The specific activity is >7,500 pmol/min/μg.
EndotoxinLevel	<1.0 EU per 1

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	μg of the protein by the LAL method
Storage	6 months from date of receipt, 20 to 70 °C as supplied; 3 months, 20 to 70 °C under sterile conditions after opening.
OfficialSymbol	IDUA

GENE INFORMATION

Gene Name	IDUA iduronidase, alpha-L- [Homo sapiens]
Synonyms	IDUA;iduronidase, alpha-L-; IDA; MPS1; Alpha-L-iduronidase; EC 3.2.1.76; OTTHUMP000002173092; OTTHUMP00000112666; α-L-iduronidase precursor
Gene ID	3425
mRNA Refseq	NM_000203
Protein Refseq	NP_000194
MIM	252800
UniProt ID	P35475
Chromosome Location	4p16.3
Pathway	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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