

IDUA Protein, Human (His)

Cat. No.:	HY-P72242
Synonyms:	IDUA; Alpha-L-iduronidase; EC 3.2.1.76
Species:	Human
Source:	E. coli
Accession:	P35475 (A28-P653)
Gene ID:	3425
Molecular Weight:	Approximately 73.9 kDa

PROPERTIES

AA Sequence

A P H L V H V D A A	R A L W P L R R F W	R S T G F C P P L P	H S Q A D Q Y V L S
W D Q Q L N L A Y V	G A V P H R G I K Q	V R T H W L L E L V	T T R G S T G R G L
S Y N F T H L D G Y	L D L L R E N Q L L	P G F E L M G S A S	G H F T D F E D K Q
Q V F E W K D L V S	S L A R R Y I G R Y	G L A H V S K W N F	E T W N E P D H H D
F D N V S M T M Q G	F L N Y Y D A C S E	G L R A A S P A L R	L G G P G D S F H T
P P R S P L S W G L	L R H C H D G T N F	F T G E A G V R L D	Y I S L H R K G A R
S S I S I L E Q E K	V V A Q Q I R Q L F	P K F A D T P I Y N	D E A D P L V G W S
L P Q P W R A D V T	Y A A M V V K V I A	Q H Q N L L L A N T	T S A F P Y A L L S
N D N A F L S Y H P	H P F A Q R T L T A	R F Q V N N T R P P	H V Q L L R K P V L
T A M G L L A L L D	E E Q L W A E V S Q	A G T V L D S N H T	V G V L A S A H R P
Q G P A D A W R A A	V L I Y A S D D T R	A H P N R S V A V T	L R L R G V P P G P
G L V Y V T R Y L D	N G L C S P D G E W	R R L G R P V F P T	A E Q F R R M R A A
E D P V A A A P R P	L P A G G R L T L R	P A L R L P S L L L	V H V C A R P E K P
P G Q V T R L R A L	P L T Q G Q L V L V	W S D E H V G S K C	L W T Y E I Q F S Q
D G K A Y T P V S R	K P S T F N L F V F	S P D T G A V S G S	Y R V R A L D Y W A
R P G P F S D P V P	Y L E V P V P R G P	P S P G N P	

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 μm solution of Tris-based buffer, 50% Glycerol.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

IDUA Protein exhibits catalytic activity, specifically engaging in the hydrolysis of unsulfated alpha-L-iduronosidic linkages within dermatan sulfate. Through its enzymatic function, IDUA plays a crucial role in breaking down these specific chemical bonds, contributing to the degradation of dermatan sulfate and maintaining cellular homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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