

## Product datasheet for TP319336

### IDUA (NM\_000203) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens iduronidase, alpha-L- (IDUA), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219336 representing NM_000203 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MRPLRPRAALLALLASLLAAPPVAPAEAPHLVHVDAARALWPLRRFWRSTGFCPPLPHSQADQYVLSWD  
Q  
QLNLAYVGVPHRGIKQVRTHWLELVTTTRGSTGRGLSYNFTHLDGYLDLLRENQLLPGFELMGSASGHF  
TDFEDKQQVFEWKDLVSSLARRYIGRYGLAHVSKWNFETWNEPDHDFDNVSMQGLNYYDACSEG  
LR  
AASPALRLGGPGDSFHTPPRSPLSWGLLRHCHDGTNFFTGEAGVRLDYISLHRKGARSSISILEQEKVA  
QQIRQLFPKFADTPYINDEADPLVGWSLPQPWRADVTAAMVVKVIAQHQNLLANTTSAPFYALLSND  
N  
AFLSYHPPFAQRTLTAARFQVNTRPPHVQLLRKPVLTAMGLLALLDEEQLWAEVSQAGTVLDSNHTVG  
V  
LASAHRPQGPADAWRAAVLIYASDDTRAHPNRSVAVTLRLRGVPPGGLVYVTRYLDNGLCSPDGEWRRRL  
GRPVFPTAEQFRMRAAEDPVAAAPRPLPAGGRLTLRALRPLPSLLLHVHVCARPEKPPGQVTRLRALPLT  
QGQLVLVWSDEHVGSKCLWYIEIQFSQDGKAYTPVSRKPSTFNLFVSPDTGAVSGSYRVRALDYWARPG  
PFSDPVPYLEVPVPRGPPSPGNP

**SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	70 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Not mentioned (PMID: <a href="#">29671261</a> )



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_000194</u>
<b>Locus ID:</b>	3425
<b>UniProt ID:</b>	<u>P35475</u>
<b>RefSeq Size:</b>	2197
<b>Cytogenetics:</b>	4p16.3
<b>RefSeq ORF:</b>	1959
<b>Synonyms:</b>	IDA; MPS1; MPSI
<b>Summary:</b>	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). [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Glycosaminoglycan degradation, Lysosome, Metabolic pathways

### Product images:



Coomassie blue staining of purified IDUA protein (Cat# TP319336). The protein was produced from HEK293T cells transfected with IDUA cDNA clone (Cat# [RC219336]) using MegaTran 2.0 (Cat# [TT210002]).