



# Human $\alpha$ -L-iduronidase, IDUA ELISA Kit

<b>Product Code</b>	CSB-E09455h
<b>Abbreviation</b>	IDUA
<b>Target Name</b>	iduronidase, alpha-L-
<b>Uniprot No.</b>	P35475
<b>Alias</b>	IDA, MPS1, alpha-L-iduronidase  $\alpha$ -L-iduronidase, IDUA
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Sample Types</b>	serum, plasma, cell lysates, tissue homogenates
<b>Detection Range</b>	0.156 ng/mL-10 ng/mL
<b>Sensitivity</b>	0.039 ng/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Signal Transduction
<b>Gene Names</b>	IDUA
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	<p>This Human IDUA ELISA Kit was designed for the quantitative measurement of Human IDUA protein in serum, plasma, cell lysates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL .</p>
<b>Target Details</b>	<p>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).</p>
<b>Product Precision</b>	<p>Intra-assay Precision (Precision within an assay): CV%&lt;8%  Three samples of known concentration were tested twenty times on one plate to assess.</p> <p>Inter-assay Precision (Precision between assays): CV%&lt;10%  Three samples of known concentration were tested in twenty assays to assess.</p>



## Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human IDUA in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	88
	Range %	84-92
1:2	Average %	94
	Range %	90-98
1:4	Average %	99
	Range %	95-104
1:8	Average %	102
	Range %	96-108

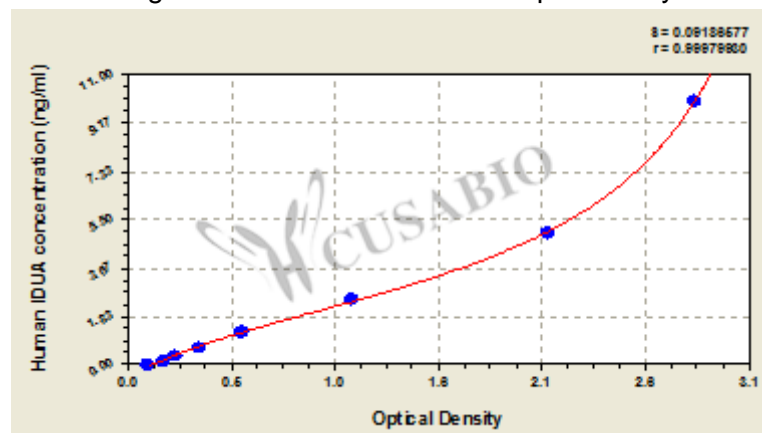
## Recovery

The recovery of human IDUA spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	89	93-96
EDTA plasma (n=4)	100	95-105

## Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
10	2.825	2.867	2.846	2.739
5	2.103	2.119	2.111	2.004
2.5	1.125	1.137	1.131	1.024
1.25	0.588	0.564	0.576	0.469
0.625	0.378	0.356	0.367	0.260
0.312	0.235	0.252	0.244	0.137
0.156	0.191	0.182	0.187	0.080
0	0.109	0.105	0.107	?

## Msds

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