

Human IDS PicoKine ELISA Kit | IDS elisa kit

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CATALOG #
AAA46155

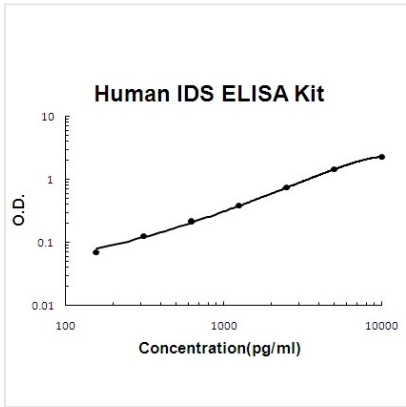
REACTIVITY
Human

PRODUCT SYNONYMS

IDS PicoKine; Human IDS PicoKine ELISA Kit; Iduronate 2-sulfatase; Ids; Iduronate 2 sulfatase; Iduronate sulfatase; Idursulfase; MPS2; SIDS; iduronate 2-sulfatase; IDS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human IDS
Sequence Length	550
Assay Range	156pg/ml-10000pg/ml
Sensitivity	<15pg/ml
Sample	For quantitative detection of human IDS in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, S26-P550
Assay Procedure Step 1	Aliquot 0.1ml per well of the 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml, 156pg/ml human IDS standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human IDS standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 1581 2903 6320 2052 3475 7895 Standard deviation 102.77 139.34 328.64 155.95 229.35 505.28 CV(%) 6.5 4.8 5.2 7.6 6.6 6.4
Sample Data	Concentration(pg/ml) 0 156 312 625 1250 2500 5000 10000 O.D. 0.028 0.069 0.125 0.215 0.381 0.729 1.433 2.243
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human IDS PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for IDS elisa kit	Principle of the assay: Human IDS ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IDS has been precoated onto 96-well plates. Standards(Expression system for standard: NSO, Immunogen sequence: S26-P550) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IDS is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human IDS amount of sample captured in plate. Background: Iduronate 2-sulfatase (IDS) is a sulfatase enzyme associated with Hunter syndrome. It encodes a member of the sulfatase family of proteins. Iduronate 2-sulfatase is involved in the lysosomal degradation of the glycosaminoglycans heparan sulfate and dermatan sulfate. The encoded preproprotein is proteolytically processed to generate two polypeptide chains. Mutations in this gene are associated with the X-linked lysosomal storage disease mucopolysaccharidosis type II, also known as Hunter syndrome. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557659
NCBI GeneID	3423
NCBI Accession #	NP_000193.1
NCBI GenBank Nucleotide #	NM_000202.7
UniProt Accession #	P22304; Q14604; Q9BRM3; D3DWT4
Molecular Weight	34,893 Da
NCBI Official Full Name	iduronate 2-sulfatase isoform a preproprotein
NCBI Official Synonym Full Names	iduronate 2-sulfatase
NCBI Official Symbol	IDS
NCBI Official Synonym Symbols	MPS2; SIDS
NCBI Protein Information	iduronate 2-sulfatase
UniProt Protein Name	Iduronate 2-sulfatase
UniProt Gene Name	IDS

UniProt Synonym Gene Names	SIDS; Idursulfase
UniProt Entry Name	IDS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/ids-picokine/46155>