

Datasheet for ABIN3044712
IDS ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	IDS
Binding Specificity:	AA 26-550
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human IDS
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Immunogen sequence: S26-P550
Specificity:	Expression system for standard: NSO Immunogen sequence: S26-P550
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<15pg/mL

Product Details

Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl
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Target Details

Target:	IDS
Alternative Name:	IDS (IDS Products)
Background:	<p>Protein Function: Required for the lysosomal degradation of heparan sulfate and dermatan sulfate.</p> <p>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.</p> <p>Synonyms: Iduronate 2-sulfatase,3.1.6.13,Alpha-L-iduronate sulfate sulfatase,Idursulfase,Iduronate 2-sulfatase 42 kDa chain,Iduronate 2-sulfatase 14 kDa chain,IDS,SIDS,</p> <p>Full Gene Name: Iduronate 2-sulfatase</p> <p>Cellular Localisation: Lysosome.</p>
Gene ID:	3423
UniProt:	P22304
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Liver, kidney, lung, and placenta.
Plate:	Pre-coated

Application Details

Protocol: 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.

Assay Procedure: Aliquot 0.1 mL 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 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human IDS standard solution and each sample be measured in duplicate.

Restrictions: For Research Use only

Handling

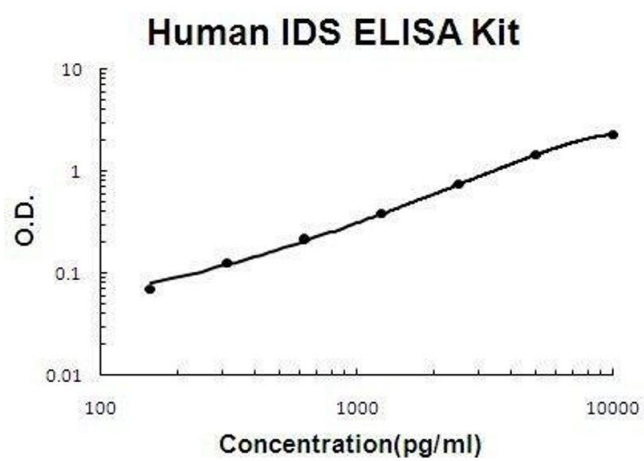
Buffer: heparin or EDTA

Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months



ELISA

Image 1. Human IDS PicoKine ELISA Kit standard curve