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ARG82745
Human Arylsulfatase B ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82745-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82745-002	Standard	2 X 10 ng/vial	4°C
ARG82745-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82745-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82745-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82745-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82745-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82745-008	25X Wash buffer	20 ml	4°C
ARG82745-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82745-010	STOP solution	10 ml (Ready to use)	4°C
ARG82745-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82745 Human Arylsulfatase B ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Arylsulfatase B in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Arylsulfatase B
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	32 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.2% Inter-Assay CV: 5.8%

Alternate Names	N-acetylgalactosamine-4-sulfatase; EC 3.1.6.12; MPS6; ASB; G4S; Arylsulfatase B

Application Instructions

Assay Time	~ 5 hours

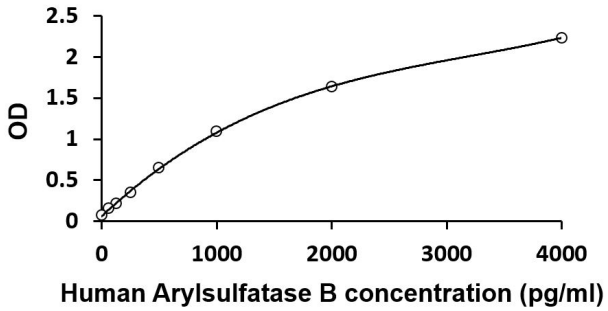
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ARSB
Gene Full Name	arylsulfatase B
Background	Arylsulfatase B encoded by this gene belongs to the sulfatase family. The arylsulfatase B homodimer hydrolyzes sulfate groups of N-Acetyl-D-galactosamine, chondriotin sulfate, and dermatan sulfate. The protein is targetted to the lysozyme. Mucopolysaccharidosis type VI is an autosomal recessive lysosomal storage disorder resulting from a deficiency of arylsulfatase B. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Removes sulfate groups from chondroitin-4-sulfate (C4S) and regulates its degradation. Involved in the regulation of cell adhesion, cell migration and invasion in colonic epithelium. In the central nervous system, is a regulator of neurite outgrowth and neuronal plasticity, acting through the control of sulfate glycosaminoglycans and neurocan levels (By similarity). [UniProt]
Highlight	Related products: Arylsulfatase antibodies; Arylsulfatase ELISA Kits; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	The conversion to 3-oxoalanine (also known as C-formylglycine, FGly), of a serine or cysteine residue in prokaryotes and of a cysteine residue in eukaryotes, is critical for catalytic activity. This post-translational modification is severely defective in multiple sulfatase deficiency (MSD). [UniProt]
Cellular Localization	Lysosome. Cell surface. [UniProt]

Images



ARG82745 Human Arylsulfatase B ELISA Kit standard curve image

ARG82745 Human Arylsulfatase B ELISA Kit results of a typical standard run with optical density reading at 450 nm.