

Arylsulfatase B (ARSB) Active Protein | ARSB active protein

Active Arylsulfatase B (ARSB)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148214	E Coli	Human	Activity Assay, Cell Culture

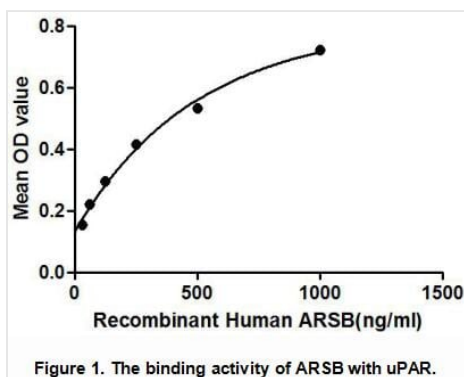
PRODUCT SYNONYMS

Arylsulfatase B (ARSB); Active Arylsulfatase B (ARSB); ASB; G4S; N-acetylgalactosamine-4-sulfatase; ARSB active protein

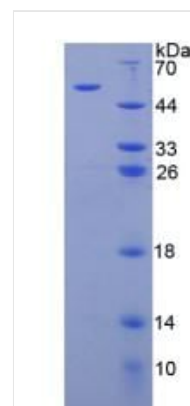
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 80%
Form/Format	Freeze-dried powder
Sequence Length	533
Applicable Applications for ARSB active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Leu81~Met533
Isoelectric Point	7.7

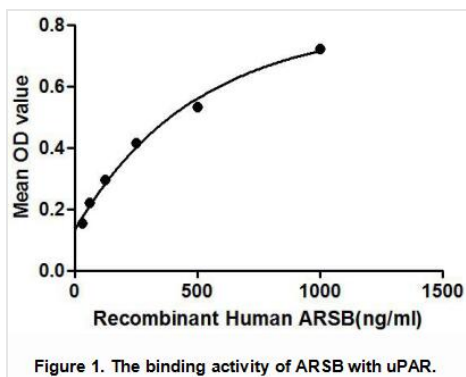
IMAGES



Application Data



SDS-PAGE



Activity

Arylsulfatase B (ARSB) is a lysosomal enzyme of the sulfatase family. ARSB hydrolyzes sulfate groups of N-Acetyl-D-galactosamine, chondroitin sulfate, and dermatan sulfate. The protein is targeted to the lysosome. Besides, Plasminogen Activator, Urokinase Receptor (uPAR) has been identified as an interactor of ARSB, thus a binding ELISA assay was conducted to detect the interaction of recombinant human ARSB and recombinant human uPAR. Briefly, ARSB were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to uPAR-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-ARSB pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of of ARSB and uPAR was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for ARSB active protein	Enzyme & Kinase
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NCBI AND UNIPROT INFORMATION

NCBI GI #	38569405
NCBI GeneID	411
NCBI Accession #	NP_000037.2
NCBI GenBank Nucleotide #	NM_000046.4
UniProt Accession #	P15848; Q8N322; Q9UDI9; B2RC20
Molecular Weight	Predicted Molecular Weight: 55.2kDa Accurate Molecular Weight: 55kDa
NCBI Official Full Name	arylsulfatase B isoform 1
NCBI Official Synonym Full Names	arylsulfatase B
NCBI Official Symbol	ARSB
NCBI Official Synonym Symbols	ASB; G4S; MPS6
NCBI Protein Information	arylsulfatase B
UniProt Protein Name	Arylsulfatase B
UniProt Gene Name	ARSB
UniProt Synonym Gene Names	ASB; G4S

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.

