

Arylsulfatase A/ARSA Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75499
Synonyms:	ARSA; Arylsulfatase A; ASA; MLD
Species:	Mouse
Source:	HEK293
Accession:	NP_033843.2 (S18-S506)
Gene ID:	11883
Molecular Weight:	Approximately 65 kDa

PROPERTIES

AA Sequence

S P P N I L L I F A	D D L G Y G D L G S	Y G H P S S T T P N	L D Q L A E G G L R
F T D F Y V P V S L	C T P S R A A L L T	G R L P V R S G M Y	P G V L G P S S Q G
G L P L E E V T L A	E V L A A R G Y L T	G M A G K W H L G V	G P E G A F L P P H
Q G F H R F L G I P	Y S H D Q G P C Q N	L T C F P P D I P C	K G G C D Q G L V P
I P L L A N L T V E	A Q P P W L P G L E	A R Y V S F S R D L	M A D A Q R Q G R P
F F L Y Y A S H H T	H Y P Q F S G Q S F	T K R S G R G P F G	D S L M E L D G A V
G A L M T T V G D L	G L L E E T L V I F	T A D N G P E L M R	M S N G G C S G L L
R C G K G T T F E G	G V R E P A L V Y W	P G H I T P G V T H	E L A S S L D L L P
T L A A L T G A P L	P N V T L D G V D I	S P L L L G T G K S	P R K S V F F Y P P
Y P D E I H G V F A	V R N G K Y K A H F	F T Q G S A H S D T	T S D P A C H A A N
R L T A H E P P L L	Y D L S Q D P G E N	Y N V L E S I E G V	S P E A L Q A L K H
I Q L L K A Q Y D A	A M T F G P S Q I A	K G E D P A L Q I C	C Q P S C T P H P V
C C H C P G S Q S			

Biological Activity Measured by its ability to hydrolyze the substrate 4-Nitrocatechol Sulfate (PNCS). The specific activity is 9.387×10^4 pmol/min/ μ g, as measured under the described conditions.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.

Endotoxin Level <1 EU/ μ g, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Arylsulfatase A (ARSA) is predicted to possess arylsulfatase activity and calcium ion binding activity. It plays a critical role upstream of the binding activity of sperm to the zona pellucida and is located in the plasma membrane, serving as an integral component of the membrane. ARSA is expressed in the brain and genitourinary system, reflecting its involvement in various physiological processes. This gene is associated with metachromatic leukodystrophy, a condition characterized by the abnormal accumulation of sulfatides in the central and peripheral nervous systems. The broad expression of ARSA across tissues, including the testis, lung, and numerous other organs, underscores its significance in diverse biological contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

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