# Recombinant mouse Arylsulfatase A/ARSA protein

Catalog Number: ATGP3831

## PRODUCT INFORMATION

**Expression system**
Baculovirus

**Domain**
18-506aa

**UniProt No.**
P50428

**NCBI Accession No.**
NP_033843

**Alternative Names**
Arylsulfatase A, Arsa, As-2, AS-A, As2, ASA, AW212749, TISP73, Cerebroside-sulfatase

## PRODUCT SPECIFICATION

**Molecular Weight**
53.2 kDa (498aa)

**Concentration**
0.5mg/ml (determined by absorbance at 280nm)

**Formulation**
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

**Purity**
> 95% by SDS-PAGE

**Endotoxin level**
< 1 EU per 1ug of protein (determined by LAL method)

**Biological Activity**
Specific activity is > 4,500pmol/min/ug, and defined as the amount of enzyme that hydrolyze 4-Nitrocatechol at pH 5.0 at 37C

**Tag**
His-Tag

**Application**
SDS-PAGE, Enzyme Activity

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

# Recombinant mouse Arylsulfatase A/ARSA protein

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## Description

Arsa, also known as arylsulfatase A, is a prototype member of the sulfatase family. It is an enzyme that catalyzes the degradation of sulfatides, a glycosphingolipid found in many tissues, but predominantly in myelin and kidney. The serum level of its might be helpful in diagnosis of lung and central nervous system cancer. Recombinant mouse Arsa, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

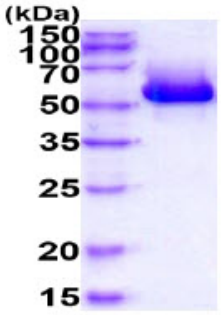
ADPSPPNILL IFADDLGYGD LGSYGHPSST TPNLDQLAEG GLRFTDFYVP VSLCTPSRAA LLTGRLPVRS GMYPGVLGPS SQGGLPLEEV TLAEVLAARG YLTGMAGKWH LGVGPEGAFL PPHQGFHRFL GIPYSHDQGP CQNLTCFPPD IPCKGGCDQG LVPIPLLANL TVEAQPPWLP GLEARYVSFS RDLMADAQRQ GRPFFLYYAS HHTHYPQFSG QSFTKRSGRG PFGDSLMELD GAVGALMTTV GDLGLLEETL VIFTADNGPE LMRMSNGGCS GLLRCGKGTT FEGGVREPAL VYWPGHITPG VTHELASSLD LLPTLAALTG APLPNVTLDG VDISPLLLGT GKSPRKSVFF YPPYPDEIHG VFAVRNGKYK AHFFTQGSAH SDTTSDPACH AANRLTAHEP PLLYDLSQDP GENYNVLESI EGVSPEALQA LKHIQLLKAQ YDAAMTFGPS QIAKGEDPAL QICCQPSCTP HPVCCHCPGS QSHHHHHH

## General References

Lukatela G., et al. (1998) Biochemistry. 37:3654-3664.
Jean S., et al. (2006) Alcohol Clin Exp Res. 30:1950-1955.

## DATA

### SDS-PAGE




15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.