

Recombinant human Arylsulfatase A/ARSA protein

Catalog Number: ATGP2087

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-509aa

UniProt No.

P15289

NCBI Accession No.

NP_000478.3

Alternative Names

ASA, Cerebroside-sulfatase, metachromatic leucodystrophy(MLD)

PRODUCT SPECIFICATION

Molecular Weight

54.3 kDa (512aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

Description

ARSA hydrolyzes cerebroside sulfate to cerebroside and sulfate. Defects in this gene lead to metachromatic leucodystrophy (MLD), a progressive demyelination disease which results in a variety of neurological symptoms and ultimately death. Alternatively spliced transcript variants have been described for this gene. Recombinant human ARSA protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>RPPNIVL IFADDLGYGD LGCYGHPST TPNLDQLAAG GLRFTDFYVP

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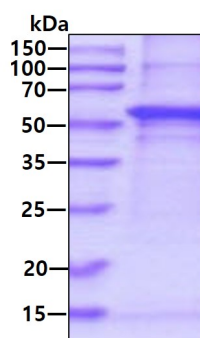
VSLCTPSRAA LLTGRLPVRM GMYPGVLVPS SRGGLPLEEV TVAEVLAARG YLTGMAGKWH LGVGPEGAFL PPHQGFHRFL
GIPYSHDQGP CQNLTCFPPA TPCDGGCDQG LVPIPLLNL SVEAQPPWLP GLEARYMAFA HDLMADAQRQ DRPFLLYYAS
HHTHYPQFSG QSFAERSGRG PFGDSLMELE AAVGTLMTAI GDLGLLEETL VIFTADNGPE TMRMSRGGCS GLLRCGKGTT
YEGGVREPAL AFWPGHIAPG VTHELASSLD LLPTLAALAG APLPNVTLDG FDLSPLLLTG GKSPRQSLFF YPSYPDEVGR
VFAVRTGKYK AHFFTQGSAA SDDTADPACH ASSSLTAHEP PLYDLSKDP GENYNLLGGV AGATPEVLQA LKQLQLLKAQ
LDAAVTFGPS QVARGEDPAL QICCHPGCTP RPACCHCPDP HA

General References

Matthes,F., et al. (2011) J. Biol. Chem. 286 (20), 17487-17494
Hayashi,T., et al. (2011) Psychiatry Clin. Neurosci. 65 (1), 105-108

DATA

SDS-PAGE



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