

Bioactive

ARSA (Human) Recombinant Protein

Catalog # P8052 Size 100 ug

Applications

Specification

Product Description	Human ARSA (P15289, 21 a.a. - 509 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.
Sequence	PNMVLIFADDLGYGDLGCYGHPSSTTPNLDQLAAGGLRFTDFYVPVSLCTPSRAALLTGRLPVRMG MYPGVLVPSSRGGLPLEEVTVAEVLAAARGYLTMAGKWHLGVGPEGAFLPPHQGFHRFLGIPYS HDQGPCQNLTCFPPATPCDGGCDQGLVPIPLLANLSVEAQPPWLPGLEARYMAFAHDLMAAQ RQDRPFFLYASHHHTYPQFSGQSFAERSGRGPFGDLSLMELDAAVGTLMTAIGDLGLEETLVIFT ADNGPETMRMSRGGCSGLLRGCKGTTYEGGVREPALAFWPGHIAPGVTHELASSLDLLPTLAAL AGAPLPNVTLDGFDLSPLLLGTGKSPRQSLFFYPSYPDEVRGVFAVRTGKYKAHFFTQGSAHSDT TADPACHASSSLTAHEPPLLYDLKDPGENYNLLGGVAGATPEVLQALKQLQLLKAQLDAAVTFG PSQVARGEDPALQICCHPGCTPRPACCHCPDPHA
Host	Viruses
Theoretical MW (kDa)	53
Form	Liquid
Preparation Method	Baculovirus expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)

Activity	Specific activity is > 2500 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 4-Nitro catechol at pH 5.0 at 37°C.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In Phosphate-Buffer Saline pH 7.4 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — ARSA

Entrez GeneID	410
Protein Accession#	P15289
Gene Name	ARSA
Gene Alias	MLD
Gene Description	arylsulfatase A
Omim ID	250100 607574
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene 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. Multiple alternatively spliced transcript variants, one of which encodes a distinct protein, have been described for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000196546 OTTHUMP00000196548

Pathway

- [Lysosome](#)

- [Sphingolipid metabolism](#)

Disease

- [Alcoholism](#)
- [Alzheimer disease](#)
- [Down Syndrome](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lead Poisoning](#)
- [Leukodystrophy](#)