

Recombinant Human ARSA, GST-tagged

Cat. No. ARSA-9897H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARSA protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	20-301a.a.
Description	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. Alternatively spliced transcript variants have been described for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	ARSA arylsulfatase A [Homo sapiens]
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Official Symbol	ARSA
Synonyms	ARSA; arylsulfatase A; metachromatic leucodystrophy; ASA; cerebroside-sulfatase; MLD;
Gene ID	410
mRNA Refseq	NM_000487
Protein Refseq	NP_000478
MIM	607574
UniProt ID	P15289
Chromosome Location	22q13.31-qter
Pathway	Glycosphingolipid metabolism, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem;
Function	arylsulfatase activity; calcium ion binding; cerebroside-sulfatase activity; hydrolase activity; sulfuric ester hydrolase activity;