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**Product Data Sheet**


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Product Name: ARSA Human  
 Cat. No.: GP21410  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Arylsulfatase A; ASA; EC 3.1.6.8; Cerebroside-sulfatase; ARSA; MLD.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSRPPNIVL IFADDLGYGD LGCYGHPSST TPNLDQLAAG GLRFTDFYVP VSLCTPSRAA LLTGRLPVRM GMYPGVLVPS SRGGLPLEEV TVAEVLAARG YLTGMAGKWH LGVGPEGAFI PPHQGFHRFL GIPYSHDQGP CQNLTCFPPA TPCDGGCDQG LVPIPLLNL SVEAQPPWLP GLEARYMAFA HDLMADAQRQ DRPFLLYYAS HHTHYQFSG QSFAERSGRG PFGDSLMEID AAVGTLMTAI GDLGLLEETL VIFTADNGPE TMRMSRGGCS GLLRCGKGT YEGGVREPAL AFWPGHIAPG VTHELASSLD LLPTLAALAG APLPNVTLTG FDLSPLLLGT GKSPRQSLFF YPSYPDEVRG VFAVRTGKYK AHFFTQGSAH SDTTADPACH ASSSLTAHEP PLYDLSKDP GENYNLLGGV AGATPEVLQA LKQLQLLKAQ LDAAVTFGPS QVARGEDPAL QICCHPGCTP RPACCHCPDP HA.		
Formulation	The ARSA solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.		

**Introduction**

Arylsulfatase A (ARSA) hydrolyzes cerebroside sulfate to cerebroside and sulfate. ARSA is inhibited by phosphate. The phosphate develops a covalent bond with the active site 3-oxoalanine. ARSA gene defects cause metachromatic leucodystrophy (MLD), a progressive demyelination disease which results in various neurological symptoms and ultimately death.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ARSA Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 512 amino acids (21-509) and having a molecular mass of 54.3kDa. ARSA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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