

32-2160: ARSA Recombinant Protein

Alternative Name : Arylsulfatase A,ASA,EC 3.1.6.8,Cerebroside-sulfatase,ARSA,MLD.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The ARSA solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.
Storage condition :	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% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSRPPNIVL IFADDLGYGD LGCYGHPSST TPNLDQLAAG GLRFTDFYVP VSLCTPSRAA LLTGRLPVRM GMYPGVLVPS SRGGLPLEEV TVAEVLAARG YLTGMAGKWH LGVGPEGAF PPHQGFHRL GIPYSHDQGP CQNLTCFPPA TPCDGGCDQG LVPIPLLNL SVEAQPWLP GLEARYMAFA HDLMADAQRQ DRPFFLYAS HHTHYQFSG QSFAERSGRG PFGDSLME LD AAVGTLMTAI GDLGLEETL VIFTADNGPE TMRMSRGGCS GLLRCGKGT YEGGVREPAL AFWPGHIAPG VTHELASSLD LLPTLAALAG APLPNVTLDG FDLSPLLLGT GKSPRQSLFF YPSYPDEVRG VFAVRTGKYK AHFFTQGS AH SDTTADPACH ASSSLTAHEP PLYDLSKDP GENYNLLGGV AGATPEVLQA LKQLQLLKAQ LDAAVTFGPS QVARGEDPAL QICCHPGCTP RPACCHCPDP HA.