

32-2818: SRR Recombinant Protein

Alternative Name : Serine racemase,D-serine ammonia-lyase,D-serine dehydratase,L-serine ammonia-lyase,L-serine dehydratase,SRR,ILV1,ISO1.

Description

Source : Escherichia Coli. SRR Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 364 amino acids (1-340) and having a molecular mass of 39.1kDa.SRR is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Serine racemase (SRR) is an enzyme which generates D-serine from L-serine. D-serine functions as a neuronal signaling molecule by activating NMDA receptors in the brain. Mammalian SRR is a pyridoxal 5'-phosphate dependent enzyme which catalyzes both the racemization of L-serine to D-serine and also the elimination of water from L-serine, producing pyruvate and ammonia. The SRR enzyme is physiologically stimulated by divalent cations (e.g., magnesium) and is allosterically activated by the magnesium/ATP complex.

Product Info

Amount : 5 µg
Purification : Greater than 85.0% as determined by SDS-PAGE.
Content : The SRR solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.
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 SGLVPRGSH MGS HMCAQYC ISFADVEKAH INIRDSIHLT PVL TSSILNQ
LTGRNLFFKC ELFQKTGSFK IRGALNAVRS LVPDALERKP KAVVTHSSGN HGQALTYAAK
LEGIPAYIVV PQTAPDCKKL AIQAYGASIV YCEPSDESRE NVAKRVTET EGIMVHPNQE
PAVIAGQGTI ALEVLNQVPL VDALVVPVGG GGMLAGIAIT VKALKPSVKV YAAEPSNADD
CYQSKLKGKL MPNLYPETI ADGVKSSIGL NTWPIIRDLV DDIFTVTEDE IKCATQLVWE
RMKLLIEPTA GVGVAVLSQ HFQTVSPEVK NICIVLSSGN VDLTSSITWV KQAERPASYQ SVSV.

