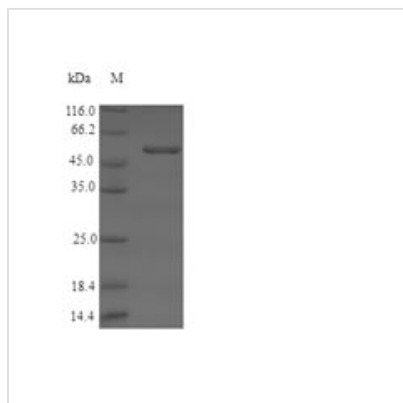




Recombinant Human Serine racemase (SRR)

Product Code	CSB-EP022691HU
Relevance	Catalyzes the synthesis of D-serine from L-serine. D-serine is a key coagonist with glutamate at NMDA receptors. Has dehydratase activity towards both L-serine and D-serine.
Abbreviation	Recombinant Human SRR protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9GZT4
Alias	D-serine ammonia-lyase D-serine dehydratase L-serine ammonia-lyase L-serine dehydratase
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MCAQYCYISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSF KIRGALNAVRSLVPDALERKPKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQT APDCKKLAIQAYGASIVYCEPSDESRENVAKRVTEETEGIMVHPNQEPAVIAGQ GTIALEVLNQVPLVDALVVPVGGGGMLAGIAITVKALKPSVKVYAAEPSNADDC YQSKLKGKLMPLNLYPPETIADGVKSSIGLNTWPIIRDLVDDIFTVTEDEIKCATQL VWERMKLLIEPTAGVGVA AVL SQHFQTVSPEVKNICIVLSGGNVDLTSSITWVK QAERPASYQSVSV
Research Area	Neuroscience
Source	E.coli
Target Names	SRR
Expression Region	1-340aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	52.6kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The generation of the recombinant Human SRR protein typically includes the following steps: synthesizing the recombinant plasmid containing the gene encoding the Human SRR protein (1-340aa), transforming the recombinant plasmid into e.coli cells, selecting the positive e.coli cells, and culturing the positive e.coli cells for protein expression. The protein is equipped with a N-terminal 6xHis-SUMO tag. After expression, affinity purification is employed to isolate and purify the recombinant SRR protein from the cell lysate. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant Human SRR protein, revealing a purity level exceeding 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.