

Product datasheet for TP310359L

Serine racemase (SRR) (NM_021947) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human serine racemase (SRR), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210359 protein sequence Red=Cloning site Green=Tags(s)

MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSVLPD
ALERKPKAWTHSSGNHGQALTYAAKLEGIPAYIVPQTAPDCCKLAIQAYGASIVYCEPSDESRENVAK
RVTEETEGIMVHPNQEPAVIAGQGTTIALEVLNQVPLVDALVVPVGGGGMLAGIAITVKALKPSVKVYAAE
PSNADDCYQSKLKGKLMPLNLYPPETIADGVKSSIGLNTWPIIRDLDVDDIFTVTEDEIKCATQLVWERMKL
LIEPTAGVGVAAVLSQHFQTVSPEVKNICIVLSSGGNVDLTSSITWVKQAERPASYQSVSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	36.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	SRR Facilitates D-serine Production from L-serine: In vitro assays, Purified human SRR (TP310359) converts L-serine to D-serine in a dose and time dependent manner. Y-axis is pmol of D-serine produced.
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



[View online »](#)

RefSeq: [NP_068766](#)

Locus ID: 63826

UniProt ID: [Q9GZT4](#), [Q3ZK31](#), [Q8N3F4](#)

RefSeq Size: 2477

Cytogenetics: 17p13.3

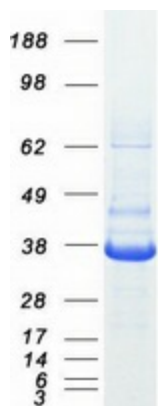
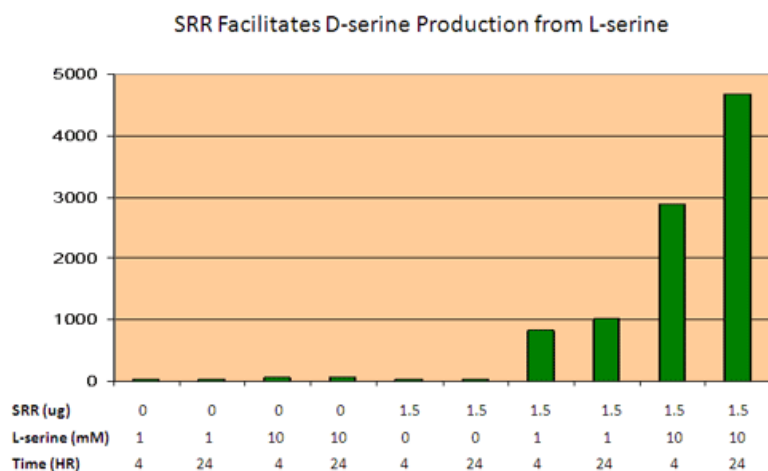
RefSeq ORF: 1020

Synonyms: ILV1; ISO1

Summary: 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. [UniProtKB/Swiss-Prot Function]

Protein Pathways: Glycine, serine and threonine metabolism

Product images:



Coomassie blue staining of purified SRR protein (Cat# [TP310359]). The protein was produced from HEK293T cells transfected with SRR cDNA clone (Cat# [RC210359]) using MegaTran 2.0 (Cat# [TT210002]).