

Product datasheet for **TP310359M**

Serine racemase (SRR) (NM_021947) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human serine racemase (SRR), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC210359 protein sequence
Red=Cloning site **Green**=Tags(s)

MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFKCELFQKTGSFKIRGALNAVRSVLPD
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.



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RefSeq: [NP_068766](#)

Locus ID: 63826

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

RefSeq Size: 2477

Cytogenetics: 17p13.3

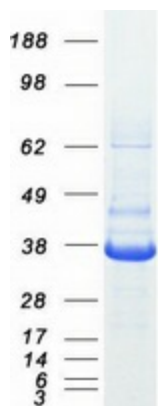
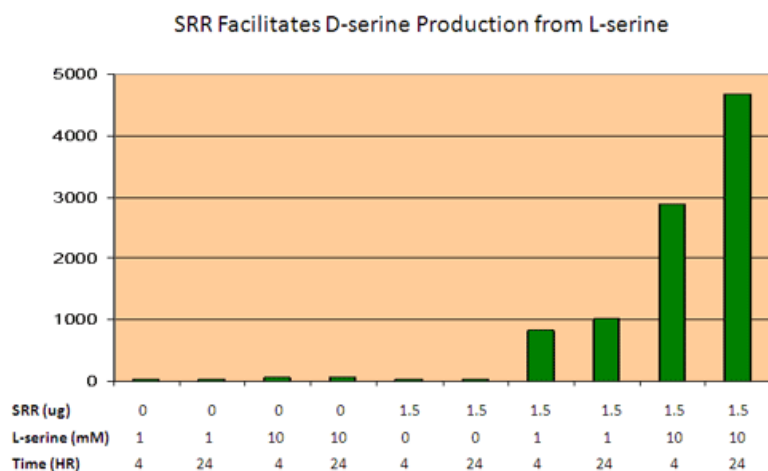
RefSeq ORF: 1020

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]).