

## Serine racemase/SRR Protein, Human, Recombinant (His & SUMO)

### General Information

Synonyms:	SRR; Serine racemase; D-serine ammonia-lyase; L-serine ammonia-lyase; D-serine dehydratase; L-serine dehydratase
Protein Construction:	1-340 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9GZT4
Molecular Weight:	52.6 kDa (predicted)
AA Sequence:	MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSLVPDALERKP KAVVTHSSGNHGGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEPSDESRENVAKRVTEETEGIM VHPNQEPAVIAGQGTTIALEVLNQVPLVDALVVPVGGGMLAGIAITVKALKPSVKVYAAEPSNADDCYQSKL KGKLMPLNLYPPETIADGVKSSIGLNTWPIIRDLDVDDIFTVEDEIKCATQLVWERMKLLIEPTAGVGVAAVLSQH FQTVSPEVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

**Reconstitution:**  
Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Catalyzes the synthesis of D-serine from L-serine. D-serine is a key coagonist with glutamate at NMDA receptors.

## A DRUG SCREENING EXPERT

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Has dehydratase activity towards both L-serine and D-serine.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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