

Product datasheet for PH310359

Serine racemase (SRR) (NM_021947) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SRR MS Standard C13 and N15-labeled recombinant protein (NP_068766)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210359
Predicted MW:	36.6 kDa
Protein Sequence:	>RC210359 protein sequence Red=Cloning site Green=Tags(s) MCAQYICISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSVLPD ALERKPKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEPSDESRENVAK RVTEETEGIMVHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGMLAGIAITVKALKPSVKVYAAE PSNADDCYQSKLKGKLPNLYPPETIADGVKSSIGLNTWPIIRDLYDDIFVTVEDEIKCATQLVWERMKL LIEPTAGVGVAAVLSQHFQTVSPEVKNICIVLSSGNVDLTSSITWVKAERPASYQSVSV TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_068766</u>
RefSeq Size:	2477
RefSeq ORF:	1020
Synonyms:	ILV1; ISO1
Locus ID:	63826



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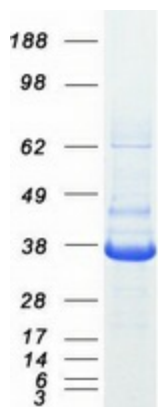
UniProt ID: [Q9GZT4](#), [Q3ZK31](#), [Q8N3F4](#)

Cytogenetics: 17p13.3

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]).