

Product datasheet for PH310656

ACMSD (NM_138326) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ACMSD MS Standard C13 and N15-labeled recombinant protein (NP_612199)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210656
Predicted MW:	38 kDa
Protein Sequence:	>RC210656 protein sequence Red=Cloning site Green=Tags(s) MKIDIHSHILPKEWPDLLKRFYGGWVQLQHHSKGEAKLLKDGKVFVRENCWDPEVRIREMDQKGVTV QALSTVPVMFSYWAKPEDTLNLQLLNNDLASTVVSYPFRFVGLGTLPMQAPELAVKEMERCYKELGFPG VQIGTHVNEWDLNAQELFPVYAAERLKCFLVHPWDMQMDGRMAKYWLPWLVGMPAETTIAICSMIMGG VFEKFPKLVCF AHGGGAFPFTVGRISHGFSMRPDLCAQDNPMNPKKYLGSFYTDALVHDPLSLKLLTDV IGKDKVILGTDYPFPLGELPEPKLIESMEEFDEETKNKLKAGNALAFLGLERKQFE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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_612199</u>
RefSeq Size:	1278
RefSeq ORF:	1008
Locus ID:	130013
UniProt ID:	<u>Q8TDX5</u>



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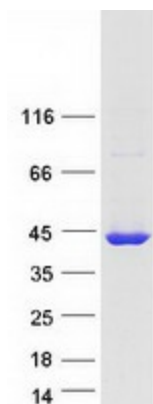
Cytogenetics: 2q21.3

Summary: The neuronal excitotoxin quinolinate is an intermediate in the de novo synthesis pathway of NAD from tryptophan, and has been implicated in the pathogenesis of several neurodegenerative disorders. Quinolinate is derived from alpha-amino-beta-carboxy-muconate-epsilon-semialdehyde (ACMS). ACMSD (ACMS decarboxylase; EC 4.1.1.45) can divert ACMS to a benign catabolite and thus prevent the accumulation of quinolinate from ACMS.[supplied by OMIM, Oct 2004]

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Tryptophan metabolism

Product images:



Coomassie blue staining of purified ACMSD protein (Cat# [TP310656]). The protein was produced from HEK293T cells transfected with ACMSD cDNA clone (Cat# [RC210656]) using MegaTran 2.0 (Cat# [TT210002]).