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Product datasheet for TP310656M

ACMSD (NM_138326) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human aminocarboxymuconate semialdehyde decarboxylase (ACMSD), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210656 protein sequence Red=Cloning site Green=Tags(s) MKIDIHSHILPKEWPDLKKRFGYGGWVQLQHHSKGEAKLLKDGKVFRVVRENCWDPEVRIREMDQKGVTV QALSTVPVMFSYWAKPEDTLNLCQLLNNDLASTVVSYPRRFVGLGTLPMQAPELAVKEMERCVKELGFPG VQIGTHVNEWDLNAQELFPVYAAAERLKCSLFVHPWDMQMDGRMAKYWLPWLVGMPAETTIAICSMIMGG VFEKFPKLKVCFAHGGGAFPFTVGRISHGFSMRPDLCAQDNPMNPKKYLGSFYTDALVHDPLSLKLLTDV IGKDKVILGTDYPFPLGELEPGKLIESMEEFDEETKNKLKAGNALAFLGLERKQFE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	37.9 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
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.
RefSeq:	NP_612199
Locus ID:	130013

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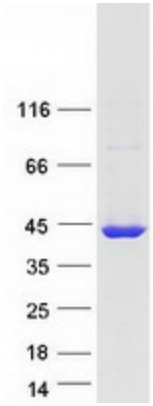
UniProt ID:	Q8TDX5
RefSeq Size:	1278
Cytogenetics:	2q21.3
RefSeq ORF:	1008
Summary:	The neuronal excitotoxin quinolinate is an intermediate in the de novo synthesis pathway of NAD from tryptophan, and has been implicated in the pathogenesis of several neurodegenerative disorders. Quinolinate is derived 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]).