Recombinant Human ACMSD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACMSD-1720H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACMSD MS Standard C13 and N15-labeled recombinant protein (NP_612199) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The neuronal excitotoxin quinolinate is an intermediate in the de novo synthesis path way 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 4.1.1.4 5) can divert ACMS to a benign catabolite and thus prevent the accumulation of quino linate from ACMS.
Molecular Mass	38 kDa
AA Sequence	MKIDIHSHILPKEWPDLKKRFGYGGWVQLQHHSKGEAKLLKDGKVFRVVRENCWDP EVRIREMDQKGVTVQALSTVPVMFSYWAKPEDTLNLCQLLNNDLASTVVSYPRRFV GLGTLPMQAPELAVKEMERCVKELGFPGVQIGTHVNEWDLNAQELFPVYAAAERLK CSLFVHPWDMQMDGRMAKYWLPWLVGMPAETTIAICSMIMGGVFEKFPKLKVCFA HGGGAFPFTVGRISHGFSMRPDLCAQDNPMNPKKYLGSFYTDALVHDPLSLKLLTD VIGKDKVILGTDYPFPLGELEPGKLIESMEEFDEETKNKLKAGNALAFLGLERKQFET RTRPLEQKLISEEDLAANDILDYKDDDDKV

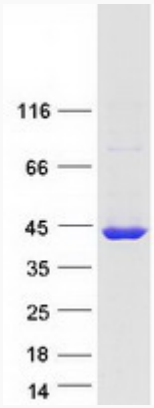
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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ACMSD aminocarboxymuconate semialdehyde decarboxylase [Homo sapiens (human)]
Official Symbol	ACMSD
Synonyms	ACMSD; aminocarboxymuconate semialdehyde decarboxylase; 2-amino-3-carboxymuconate-6-semialdehyde decarboxylase; picolinate carboxylase;
Gene ID	130013
mRNA Refseq	NM_138326
Protein Refseq	NP_612199
MIM	608889
UniProt ID	Q8TDX5

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SDS-PAGE	

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