

Recombinant Full Length Human ACMSD Protein, C-Flag-tagged

Cat. No. ACMSD-655HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACMSD Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-336 aa
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	37.9 kDa
AA Sequence	MKIDHSHILPKIEWPDLKKRFGYGGWVQLQHHSKGEAKLLKDGKVFRVVRENCWDP EVRIREMDQKGVTV QALSTVPVMFSYWAKPEDTLNLCQLLNNDLASTVVSYPRRFV GLGTLPMQAPELAVKEMERCVKELGFPG VQIGTHVNEWDLNAQELFPVYAAAERL KCSLFVHPWDMQMDGRMAKYWLPWLVGMPAETTIAICSMIMGG VFEKFPKLKVCF

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	AHGGGAFPFTVGRISHGFSMRPDLCAQDNPMNPKKYLGSFYTDALVHDPLSLKLLT DV IGKDKVILGTDYPFPLGELEPGKLIESMEEFDEETKNKLKAGNALAFLGLERKQFETR TRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	Metabolic pathways, Tryptophan metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	ACMSD aminocarboxymuconate semialdehyde decarboxylase [Homo sapiens (human)]
Official Symbol	ACMSD
Synonyms	2-amino-3-carboxymuconate-6-semialdehyde decarboxylase; aminocarboxymuconate

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semialdehyde decarboxylase; OTTHUMP00000162500

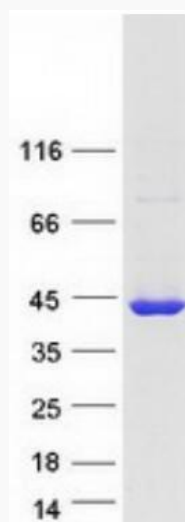
Gene ID 130013

mRNA Refseq NM_138326.3

Protein Refseq NP_612199.2

MIM 608889

UniProt ID Q8TDX5



Coomassie blue staining of purified ACMSD protein.

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