Recombinant Mouse Acmsd Protein, Myc/DDK-tagged

Cat. No. Acmsd-1497M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length amino carboxymuconate semialdehyde decarboxylase (Acmsd), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Converts alpha-amino-beta-carboxymuconate-epsilon-semialdehyde (ACMS) to alpha-aminomuconate semialdehyde (AMS). ACMS can be converted non-enzymatically to quinolate (QA), a key precursor of NAD, and a potent endogenous excitotoxin of neuronal cells which is implicated in the pathogenesis of various neurodegenerative disorders. In the presence of ACMSD, ACMS is converted to AMS, a benign catabolite. ACMSD ultimately controls the metabolic fate of tryptophan catabolism along the kynurenine pathway.
Molecular Mass	38.5 kDa
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 after receiving vials.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Acmsd amino carboxymuconate semialdehyde decarboxylase [Mus musculus (house mouse)]
Official Symbol	Acmsd
Synonyms	ACMSD; amino carboxymuconate semialdehyde decarboxylase; 2-amino-3-carboxymuconate-6-semialdehyde decarboxylase; picolinate carboxylase
Gene ID	266645
mRNA Refseq	NM_001033041
Protein Refseq	NP_001028213
UniProt ID	Q8R519

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