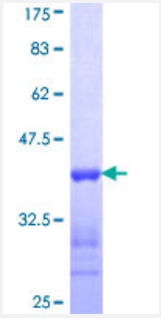
ACMSD (Human) Recombinant Protein (Q01)

Catalog # H00130013-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ACMSD partial ORF (NP_612199, 179 a.a. - 278 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	SHGFSMRPDLCAQDNPMNPKKYLGSFYTDALVHDPLSLKLLTDVIGKDKVILGTDYPFPLGELEP GKLIESMEEFDEETKNKLKAGNALAFLGLERKQFE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACMSD

Entrez GeneID	130013
GeneBank Accession#	NM_138326
Protein Accession#	NP_612199
Gene Name	ACMSD
Gene Alias	-
Gene Description	aminocarboxymuconate semialdehyde decarboxylase
Omim ID	608889
Gene Ontology	Hyperlink
Gene 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
Other Designations	2-amino-3-carboxymuconate-6-semialdehyde decarboxylase|OTTHUMP00000162500

Pathway

- Metabolic pathways
- Tryptophan metabolism