Full-Length

ACAD9 (Human) Recombinant Protein (P01)

Catalog # H00028976-P01 Size 25 ug, 10 ug

Applications

Specification

Product Description	Human ACAD9 full-length ORF (NP_054768.2, 1 a.a. - 621 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSGCGLFLRTTAAARACRGLVVSTANRRLLRTSPPVRAFAKELFLGKIKKKEVFPFPEVSQDELN EINQFLGPVEKFFTEEVDSRKIDQEGKIPDETLEKLKSLGLFGLQVPEEYGGLGFSNTMYSRLGEII SMDGSITVTLAAHQAIGLKGIILAGTEEQKAKYLPKLASGEHIAAFCLTEPASGSDAASIRSRATLSE DKKHYILNGSKVWITNGGLANIFTVFAKTEVVDSDGSVKDKITAFIVERDFGGVTNGKPEDKLGIRG SNTCEVHFENTKIPVENILGEVGDGFKVAMNILNSGRFSMGSVVAGLLKRLIEMTAEYACTRKQFN KRLSEFGLIQEKFALMAQKAYVMESMTYLTAGMLDQPGFPDCSIEAAMVKVFSSEAAWQCVSEA LQILGGLGYTRDYPYERILRDTRILLIFEGTNEILRMYIALTGLQHAGRILTTRIHELKQAKVSTVMDTVG RRLRDSLGRTVDLGLTGNHGVVHPSLADSANKFEENTYCFGRTVETLLLRFGKTIMEEQLVLKRV ANILINLYGMTAVLSRASRSIRIGLRNHDHEVLLANTFCVEAYLQNLFSLSQLDKYAPENLDEQIKKV SQQILEKRAYICAHPLDRTC
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	95.2
Interspecies Antigen Sequence	Mouse (85); Rat (85)
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 — ACAD9

Entrez GeneID	28976
GeneBank Accession#	NM_014049.3
Protein Accession#	NP_054768.2
Gene Name	ACAD9
Gene Alias	ACAD-9, FLJ23533, MGC14452, NPD002
Gene Description	acyl-Coenzyme A dehydrogenase family, member 9
Omim ID	611103 611126
Gene Ontology	Hyperlink
Gene Summary	Mitochondrial fatty acid beta-oxidation is one of the main energy-producing metabolic pathways in eukaryotes. Acyl-CoA dehydrogenases (ACADs; EC 1.3.99.13) are mitochondrial enzymes that c atalyze the initial rate-limiting step in the beta-oxidation of fatty acyl-CoA. ACAD9 belongs to a gr oup of ACADs that act on fatty acids containing 14 to 20 carbons (Zhang et al., 2002 [PubMed 12 359260]).[supplied by OMIM
Other Designations	acyl-CoA dehydrogenase 9|very-long-chain acyl-CoA dehydrogenase VLCAD

Pathway

- 1- and 2-Methylnaphthalene degradation
- Geraniol degradation