

CAD protein (CAD) Recombinant Protein | CAD recombinant protein

Recombinant Human CAD protein (CAD) , partial

CATALOG #
AAA115970

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

PRODUCT SYNONYMS

CAD protein (CAD); Recombinant Human CAD protein (CAD); partial; CAD recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1456-1846aa; partial
Sequence	MTSQKLVRLP GLIDVHVHLR EPGGTHKEDF ASGTAAALAG GITMVCAMPN TRPPIIDAPA LALAQKLAEA GARCDFALFL GASSENAGTL GTVAGSAAGL KLYLNETFSE LR LDSVVQWM EHFETWPSHL PIVAHAEQQT VAAVLMVAQL TQRSVHICHV ARKEEILLIK AAKARGLPVT CEVAPHHLFL SHDDLRLGP GKGEVRPELG SRQDVEALWE NMAVIDCFAS DHAPHTLEEK CGSRPPPGFP GLETMLPLLL TAVSEGRSL DDLLQRLHHN PRRIFHLPPQ EDTYVEVDLE HEWTIPSHMP FSKAHWTPFE GQKVKGTVRR VVLRGEVAYI DGQVLVPPGY GQDVRKWPQG AVPQLPPSAP ATSEMTTTPPE RPRRGIPGLP D
Species	Human
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for CAD recombinant protein	The de novo synthesis of pyrimidine nucleotides is required for mammalian cells to proliferate. This gene encodes a trifunctional protein which is associated with the enzymatic activities of the first 3 enzymes in the 6-step pathway of pyrimidine biosynthesis: carbamoylphosphate synthetase (CPS II), aspartate transcarbamoylase, and dihydroorotase. This protein is regulated by the mitogen-activated protein kinase (MAPK) cascade, which indicates a direct link between activation of the MAPK cascade and de novo biosynthesis of pyrimidine nucleotides.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	807045910
NCBI GeneID	790
NCBI Accession #	NP_001293008.1
NCBI GenBank Nucleotide #	NM_001306079.1
UniProt Accession #	P27708; Q6P0Q0; Q96CK3; D6W552
Molecular Weight	242,984 Da
NCBI Official Full Name	CAD protein isoform 2
NCBI Official Synonym Full Names	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotase
NCBI Official Symbol	CAD

NCBI Official Synonym Symbols	CDG1Z; GATD4; EIEE50
NCBI Protein Information	CAD protein
UniProt Protein Name	CAD protein
UniProt Gene Name	CAD

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cad-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/115970>