

Cyclic GMP-AMP synthase (CGAS) Recombinant Protein | CGAS recombinant protein

Recombinant Human Cyclic GMP-AMP synthase (CGAS), partial

CATALOG # AAA117255	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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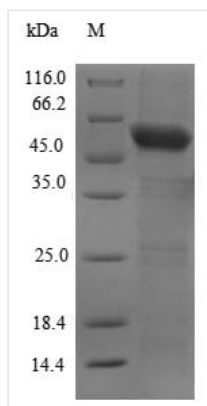
PRODUCT SYNONYMS

Cyclic GMP-AMP synthase (CGAS); Recombinant Human Cyclic GMP-AMP synthase (CGAS); partial; Protein MB21D1; Mab-21 domain-containing protein 1; CGAS 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	161-522. Partial
Sequence	GASKLRAVLE KLKLSRDDIS TAAGMVKGVV DHLLLRLKCD SAFRGVGLLN TGSYYEHVKI SAPNEFDVMF KLEVPRIQLE EYSNTRAYYF VKFKRNPKE PLSQFLEGEI LSASKMLSKE RKIIKEEIND IKDQDVIMKR KRGGSAPVTL LISEKISVDI TLALESKSSW PASTQEGLRI QNWLSAKVRK QLRLKPFYLV PKHAKENGNGF QEETWRLSFS HIEKEILNNH GKSKTCCENK EEKCCRKDCL KLMKYLLLEQL KERFKDKKHL DKFSSYHVKT AFFHVCTQNP QDSQWDRKDL GLCFDNCVTY FLQCLRTEKL ENYFIPEFNL FSSNLIDKRS KEFLTQKIEY ERNNEFPVFD EF
Species	Homo sapiens (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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CGAS recombinant protein	Nucleotidyltransferase that catalyzes the formation of cyclic GMP-AMP (cGAMP) from ATP and GTP. Catalysis involves both the formation of a 2',5' phosphodiester linkage at the GpA step and the formation of a 3',5' phosphodiester linkage at the ApG step, producing c[G(2',5')pA(3',5')p]. Has antiviral activity by acting as a key cytosolic DNA sensor, the presence of double-stranded DNA (dsDNA) in the cytoplasm being a danger signal that triggers the immune responses. Binds cytosolic DNA directly, leading to activation and synthesis of cGAMP, a second messenger that binds to and activates TMEM173/STING, thereby triggering type-I interferon production. cGAMP can be transferred between cells by virtue of packaging within viral particles contributing to IFN-induction in newly infected cells in a cGAS-independent but TMEM173/STING-dependent manner (PubMed:26229115).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115511030
NCBI GeneID	115004
NCBI Accession #	NP_612450.2
NCBI GenBank Nucleotide #	NM_138441.2
UniProt Accession #	Q8N884; Q14CV6; Q32NC9; Q5SWL0; Q5SWL1; Q96E45; L0L2J9
Molecular Weight	58.3 kDa
NCBI Official Full Name	cyclic GMP-AMP synthase
NCBI Official Synonym Full Names	Mab-21 domain containing 1
NCBI Official Symbol	MB21D1
NCBI Official Synonym Symbols	cGAS; h-cGAS; C6orf150
NCBI Protein Information	cyclic GMP-AMP synthase; cGAMP synthase; protein MB21D1; mab-21 domain-containing protein 1
UniProt Protein Name	Cyclic GMP-AMP synthase
UniProt Gene Name	MB21D1
UniProt Synonym Gene Names	C6orf150; cGAMP synthase; cGAS; h-cGAS
UniProt Entry Name	CGAS_HUMAN

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.