

Cyclic GMP-AMP synthase (MB21D1) Recombinant Protein | MB21D1 recombinant protein

Recombinant Human Cyclic GMP-AMP synthase (MB21D1), partial

CATALOG # AAA309810	HOST E Coli	REACTIVITY Human
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PRODUCT SYNONYMS

Cyclic GMP-AMP synthase (MB21D1); Recombinant Human Cyclic GMP-AMP synthase (MB21D1); partial; cGAMP synthase; MB21D1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Tris-based buffer, 50% glycerol
Sequence Positions	Partial, 161-522aa
Sequence	GASKLRVLE KKLRSDDIS TAAGMVKGVV DHLLRLKCD SAFRGVGLLN TGSYYEHVKI SAPNEFDVMF KLEVPRIQLE EYSNTRAYF VKFKRNPEN PLSQFLEGEI LSASKMLSKE RKIIEEIND IKDQDVIMKR KRGGSPTVTL LISEKISVDI TLALESKSSW PASTQEGLRI QNWLSAKVRK QLRLKPFYLV PKHAKENGFG QEETWRLSFS HIEKEILNNH GSKTCCENK EEKCCRKDCL KLMKYLLEQL KERFKDKKHL DKFSSYHVKT AFFHVCTQNP QDSQWDRKDL GLCFDNCVTY FLQCLRTEKL ENYFIPEFNL FSSNLIDKRS KEFLTKQIEY ERNNEFPVFD EF
Calculated MW	58.3 kDa
Immunogen Description	Expression Region:161-522aaSequence Info:Partial
Tag Info	N-terminal 6xHis-SUMO-tagged
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20 °C/-80°C. Notes: Repeated freezing and thawing is not recommended.Store working aliquots at 4°C for up to one week.

ADDITIONAL INFORMATION

Related Product Information for MB21D1 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
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
UniProt Protein Name	Cyclic GMP-AMP synthase
UniProt Gene Name	MB21D1
UniProt Synonym Gene Names	C6orf150; cGAMP synthase; cGAS; h-cGAS

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/mb21d1-recombinant-protein-e-coli/309810>