

Recombinant Full Length Human CGAS Protein, C-Flag-tagged

Cat. No. CGAS-165HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CGAS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Enables several functions, including 2',3'-cyclic GMP-AMP synthase activity; chromatin binding activity; and phosphatidylinositol-4,5-bisphosphate binding activity. Involved in several processes, including cellular response to exogenous dsRNA; positive regulation of intracellular signal transduction; and regulation of defense response. Located in several cellular components, including cytosol; nucleus; and site of double-strand break.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	58.6 kDa
AA Sequence	MQPWHGKAMQRASEAGATAPKASARNARGAPMDPNESPAAPEAALPKAGKFGPA RKSGSRQKKSAPDTQE RPPVRATGARAKKAPQRAQDTQPSDATSAPGAEGLEPP AAREPALS RAGSCRQRGARCSTKPRPPPGPWD VPSPGLPVSAPILVRRDAAPGAS KLRAVLEKLKLSRDDISTAAGMVKGVDHLLLRLKCDSA FRGVGLLN TGSYYEHVKI SAPNEFDVMFKLEV PRIQLEEYSNTRAYYFVKFKRNPKENHLSQFLEGEILSASKML SKF RKIIKEEINDIKD TDVIMKRKRGGSPAVTLLISEKISVDITLALESKSSWPASTQEG LRIQNWLSAKVRK QLRLKPFYLVPKHAKGNGFQEETWRLSFSHIEKEILNNHGKSK

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TCCENKEEKCCRKDCLKLMKYLLEQL KERFKDKKHLDKFSSYHVKTAFHHVCTQNP
 QDSQWDRKDLGLCFDNCVTYFLQCLRTEKLENYFIPEFNL
 FSSNLIDKRSKEFLTQIEYERNNEFPVFDEFTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

Gene Name	CGAS cyclic GMP-AMP synthase [Homo sapiens (human)]
Official Symbol	CGAS
Synonyms	MB21D1; h-cGAS; C6orf150
Gene ID	115004
mRNA Refseq	NM_138441.3

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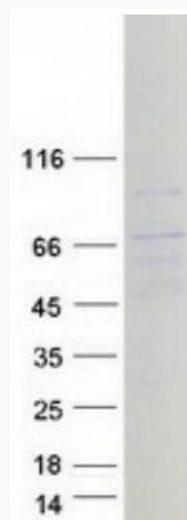
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Protein Refseq [NP_612450.2](#)

MIM [613973](#)

UniProt ID [Q8N884](#)



Coomassie blue staining of purified CGAS protein.

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