

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	<p>MQPWHGKAMQRASEAGATAPKASARNARGAPMDPNESPAAPEAALPKAGKFGPA RKSGSRQKKSAPDTQE RPPVRATGARAKKAPQRAQDTQPSDATSAPGAEGLEPP AAREPALS RAGSCRQRGARCSTKPRPPGPWD VPSPGLPVSAPILVRRDAAPGAS KLRAVLEKCLKLSRDDISTAAGMVKGVVDHLLLRLKCDSAFRGVGLLN TGSYYEHVKI SAPNEFDVMFKLEVPRIQLEEYSNTRAYYFVKFKRNPKENHLSQFLEGEILSASKML SKF RKIIKEEINDIKD TDVIMKRKRGGSPAVTLLISEKISVDITLALESKSSWPASTQEG LRIQNWLSAKVRK QLRLKPFYLVPKHAKEGNGFQEETWRLSFSHIEKEILNNHGKSK</p>

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TCCENKEEKCCRKDKLKMKYLLLEQL KERFKDKKHLDKFSSYHVKTAFFHVCTQNP
 QDSQWDRKDLGLCFDNCVITYFLQCLRTEKLENYFIPEFNL
 FSSNLIDKRSKEFLTKQIEYERNNEFPVFDEFTRTRPLEQKLISEEDLAANDILDYKDD
 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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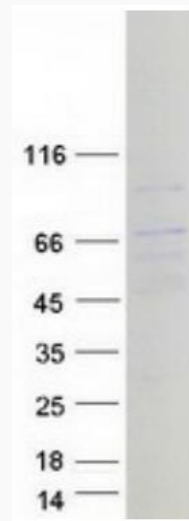
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Protein Refseq NP_612450.2

MIM 613973

UniProt ID Q8N884



Coomassie blue staining of purified CGAS protein.

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