

Recombinant Human STING Protein, His&GST tagged

Cat. No. STING-016H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human STING (stimulator of interferon genes), encompassing amino acids 139-344. This construct contains an N-terminal GST tag followed by a Thrombin Cleavage Site and a C-terminal His-tag (6×His). This protein was affinity purified.
Species	Human
Source	Insect Cells
ProteinLength	139-344 aa
Description	STING (stimulator of interferon genes), also known as TMEM173 (transmembrane protein 173), is a crucial protein in innate immunity. It is a membrane protein involved in the response to foreign DNA in hematopoietic lineage cells, such as NK and T cells, myeloid cells, and monocytes. It is also found in the retina, heart, and other tissues. STING gets activated by DNA sensors and triggers IFN (type I interferon) production, by stimulating TBK1, which then phosphorylates STAT6 (signal transducer and activator of transcription 6) or IRF3 (interferon regulatory factor 3). These in turn activate the expression of genes linked to immune responses. It can also function as a DNA sensor, by binding directly to the cyclic di-GMP. More recently STING's role in controlling ROS (reactive oxygen species) formation and that loss of STING reduces DNA damage have been identified. The development the STING agonist that be beneficial in combinatory cancer therapy.
Form	Aqueous buffer solution.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	50 kDa
Purity	≥ 85%
Applications	Useful for SDS-PAGE.
Notes	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Storage	At least 6 months at -80 centigrade.
Storage Buffer	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, and 20% glycerol.
Shipping	At -80 centigrade

GENE INFORMATION

Gene Name	STING1 stimulator of interferon response cGAMP interactor 1 [Homo sapiens (human)]
Official Symbol	STING1
Synonyms	STING1; stimulator of interferon response cGAMP interactor 1; ERIS; MITA; MPYS; SAVI; NET23; STING; hMITA; hSTING; TMEM173; STING-beta; stimulator of interferon genes protein; N-terminal methionine-proline-tyrosine-serine plasma membrane tetraspanner; endoplasmic reticulum IFN stimulator; endoplasmic reticulum interferon stimulator; mitochondrial mediator of IRF3 activation; stimulator of interferon protein; stimulator of interferon response cGAMP interactor-deltaC; stimulator of interferon response cGAMP interactor-deltaN; sting 1; transmembrane

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protein 173

Gene ID [340061](#)

mRNA Refseq [NM_198282](#)

Protein Refseq [NP_938023](#)

MIM [612374](#)

UniProt ID [Q86WV6](#)

WB

