

# Recombinant Full Length Human STING1 Protein, C-Flag-tagged

**Cat. No.** STING1-08HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human STING1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes a five transmembrane protein that functions as a major regulator of the innate immune response to viral and bacterial infections. The encoded protein is a pattern recognition receptor that detects cytosolic nucleic acids and transmits signals that activate type I interferon responses. The encoded protein has also been shown to play a role in apoptotic signaling by associating with type II major histocompatibility complex. Mutations in this gene are the cause of infantile-onset STING-associated vasculopathy. Alternate splicing results in multiple transcript variants. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 42 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MPHSSLHPSIPCPRGHGAQKAALVLLSACLVTLWGLGEPPEHTLRYLVLHLASLQLG<br>LLLNGVCSLAEEL RHIHSRYRGSYWRTVRACLGCP LRRGALLLLSIYFYSLPNAVG<br>PPFTWMLALLGLSQALNILLGLKGLA PAEISAVCEKGNFNVAHGLAWSYYIGYLRIL<br>PELQARIRTYNQHYNNLLRGAVSQRLYILLPLDCGVPD NLSMADPNIRFLDKLPQQT                                                                                                                                                                                                                                                                                                                                                            |

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GDHAGIKDRVYSNSIYELLENGQRAGTCVLEYATPLQTLFAMSQYSQAGFS REDRL  
EQAKLFCRTLEDILADAPESQNNCRLIAYQEPADDSSFSLSQEVLRHLRQEEKEEVT  
VGSLKTSA  
VPSTSTMSQPELLISGMEKPLPLRTDFSTRTRPLEQKLISEEDLAANDILDYKDDDD  
KV

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

## GENE INFORMATION

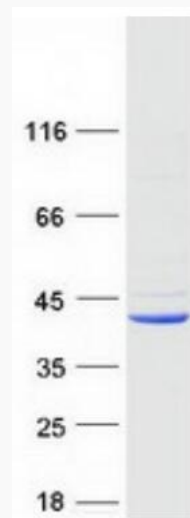
|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | STING1 stimulator of interferon response cGAMP interactor 1 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | STING1                                                                               |
| <b>Synonyms</b>        | ERIS; hMITA; hSTING; MITA; MPYS; NET23; SAVI; STING; STING-beta; TMEM173             |

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|-----------------------|-------------|
| <b>Gene ID</b>        | 340061      |
| <b>mRNA Refseq</b>    | NM_198282.4 |
| <b>Protein Refseq</b> | NP_938023.1 |
| <b>MIM</b>            | 612374      |
| <b>UniProt ID</b>     | Q86WV6      |

**SDS-PAGE**


Coomassie blue staining of purified TMEM173 protein.