Recombinant Human STING Protein, H232 variant, His tagged

Cat. No. STING-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant STING corresponding to amino acids 139-379 of human STING H232 allele (UniProtKB - Q86WV6) was expressed in E. coli cells and contains a His tag at the N-terminus.
Species	Human
Source	E.coli
ProteinLength	39-379 aa
Description	Human transmembrane protein 173 (TMEM173) gene encodes the STING protein (Stimulator of Interferon Genes, also known as TMEM173, HMITA, NET23, ERIS, MPYS, MITA, SAVI). STING is a major regulator of the innate immune response to viral and bacterial infections and promotes the production of type I interferon (IFN-alpha and IFN-beta). The initial identified human STING has a histidine at amino acid 232 (H232 variant). The most common TMEM173 allele in the human population has an arginine at amino acid 232 (R232). Amid Biosciences offers purified recombinant human STING H232 and R232 variants, respectively.
AASequence	MGHHHHHHHHGSLAPAEISAVCEKGNFNVAHGLAWSYYIGYLRLILPELQARIRTYN QHYNNLLRGAVSQRLYILLPLDCGVPDNLSMADPNIRFLDKLPQQTGDHAGIKDRVY SNSIYELLENGQRAGTCVLEYATPLQTLFAMSQYSQAGFSREDRLEQAKLFCRTLED ILADAPESQNNCRLIAYQEPADDSSFSLSQEVLRHLRQEEKEEVTVGSLKTSAVPST STMSQEPELLISGMEKPLPLRTDFS

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

Purity	> 90% as analyzed by SDS-PAGE
Storage	The product can be stored at -20 centigrade or below. Avoid repeated freezing and thawing cycles.
Storage Buffer	20 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10% glycerol, 2 mM DTT, 0.1% Tween 20
Reference	1. Patel, S. and Jin, L. TMEM173 variants and potential importance to human biology and disease. Genes & Immunity (2019) 20:82–89. https://doi.org/10.1038/s41435-018-0029-9

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 protein 173
Gene ID	340061
mRNA Refseq	NM_198282

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Protein Refseq	NP_938023
MIM	612374
UniProt ID	Q86WV6

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