

Recombinant Human TMEM173 protein, His-tagged

Cat. No. TMEM173-1436H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TMEM173 aa. (Leu159~Pro373) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Leu159~Pro373
Description	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.
Form	Freeze-dried powder
Molecular Mass	30kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>98%

 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

Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Reporter Assays; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Isoelectric Point	5.8

GENE INFORMATION

Gene Name	TMEM173 transmembrane protein 173 [Homo sapiens (human)]
Official Symbol	TMEM173
Synonyms	TMEM173; transmembrane protein 173; ERIS; MITA; MPYS; SAVI; NET23; STING; hMITA; hSTING; 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

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IRF3 activation

Gene ID	340061
mRNA Refseq	NM_198282.3
Protein Refseq	NP_938023.1
UniProt ID	Q86WV6

SDS-PAGE

