

Sting Protein, Human, Recombinant (Sumo & His)

General Information

Synonyms:	TMEM173;Mediator of IRF3 activation;Stimulator of interferon genes protein;sting
Protein Construction:	Val155-Val341
Species:	Human
Expression Host:	E. coli
Accession:	Q86WV6
Molecular Weight:	35 KDa (reducing condition)
AA Sequence:	Val155-Val341

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM HEPES, 100 mM NaCl, 10% Glycerol, pH8.0.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Stimulator of Interferon Gene (Sting, TMEM173) belongs to the TMEM173 family. STING is 379 amino acids (aa) in length. It contains an N-terminal cytoplasmic region (aa 1-20), four transmembrane segments (aa 21-173), and a C-terminal cytoplasmic domain (aa 174-379). It is ubiquitously expressed in skin endothelial cells, alveolar type 2 pneumocytes, bronchial epithelium and alveolar macrophages. Its subunit structure is associated with the MHC-II complex and interacts with DDX58/RIG-I, MAVS and SSR2, RNF5 and TRIM56 along with TBK1. This type of protein often acts as a facilitator of innate immune signaling that acts as a sensor of cytosolic DNA from bacteria and viruses and promotes the production of type I interferon.

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