

Recombinant Protein Technical Manual

Recombinant Human STING/TMEM173 Protein (Sumo & His Tag) **RPES4727**

Product SKU: RPES4727 Size: 10µg

Expression host: E. coli **Species**: Human

Uniprot: Q86WV6

Molecular Mass: 33.8 kDa

AP Molecular Mass: 35 kDa

Tag: N-Sumo-6His

Bio-activity:

> 95% as determined by reducing SDS-PAGE. **Purity:**

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. Storage:

This product is provided as liquid. It is shipped at frozen temperature with blue Shipping:

ice. Upon receipt, store it immediately at<-20°C.

Formulation: Supplied as a 0.2 µm filtered solution of PBS, pH7.4.

Please refer to the printed manual for detailed information. Reconstitution:

Application:

Synonyms: Stimulator of interferon genes protein; TMEM173; Mediator of IRF3

activation; sting;

Immunogen Information:

Sequence: Val155-Val341

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 2173), and a C-terminal cytoplasmic domain (aa 174-379). It ubiquitously expressed in skin endothelial cells, alveolar type 2 pneumocytes, bronchial epithelium and alveolar macrophagesand. Its subunit structure 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 uses as 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.