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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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STING, His-Tag Recombinant

Catalog: 102304
Lot: 240724-3

Product Information

Description:	Recombinant human STING (stimulator of interferon response cGAMP interactor 1), encompassing amino acids 139-379(end). This construct contains an N-terminal His-tag (6xHis). The protein has been affinity purified.
Background:	STING (stimulator of interferon genes), also known as TMEM173 (transmembrane protein 173), is a crucial protein in innate immunity. It is a membrane protein involved in the response to foreign DNA in hematopoietic lineage cells, such as NK and T cells, myeloid cells, and monocytes. It is also found in the retina, heart, and other tissues. STING gets activated by DNA sensors and triggers IFN (type I interferon) production, by stimulating TBK1, which then phosphorylates STAT6 (signal transducer and activator of transcription 6) or IRF3 (interferon regulatory factor 3). These in turn activate the expression of genes linked to immune responses. It can also function as a DNA sensor, by binding directly to the cyclic di-GMP. More recently it has been shown that STING plays a role in controlling ROS (reactive oxygen species) formation, and that loss of STING reduces DNA damage. The development of STING agonists may be beneficial in cancer therapy.
Species:	Human
Construct:	STING (His-139-379(end))
Concentration:	0.39 mg/ml
Expression System:	*E. coli*
Purity:	74%
Format:	Aqueous buffer solution.
Formulated In:	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 20% glycerol, and 3 mM DTT
MW:	28 kDa
Genbank Accession:	NM_198282.4
Stability:	At least 6 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	Thermal shift assay (TSA) was used to study thermal stabilization of STING upon cGAMP binding. Assay was conducted in 20 µl using ~1.5 µM of STING, His-Tag Recombinant (#102304), increasing concentrations of cGAMP (0-2000uM), and a 1000-fold dilution of SYPRO Orange dye (Invitrogen) mixed in the reaction buffer (20 mM Tris-HCl, pH 7.4 and 150 mM NaCl). The fluorescence signals as a function of temperature were recorded using a Real-time PCR machine (Bio-Rad CFX96), in which the fluorescence intensity was measured at Ex/Em: 470/570 nm. The temperature gradient was set in the range of 20-95 °C with a ramp of 0.5 °C over the course of 7 s. The thermal unfolding values (Tm) for STING were extracted from the melting curves and plotted using GraphPad Prism Software.
Applications:	Useful for the study of screening inhibitors and selectivity profiling.

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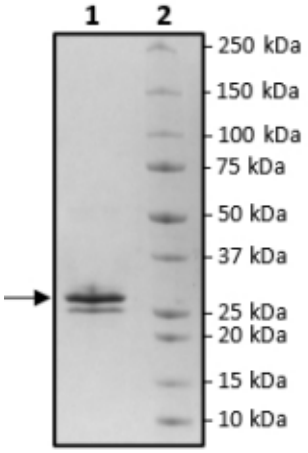
Quality Control Data

4-20% SDS-PAGE Coomassie Staining



STING/cGAMP