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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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SARS-CoV-2 (COVID-19) Spike (D614G Mutant) protein (ECD), His tag (active)

Cat No. GTX02575-pro**Species** SARS Coronavirus 2**Package**
100 µg

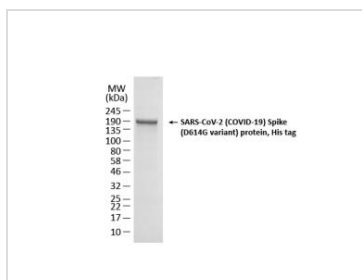
APPLICATION

Observed MW 190 kDa.

PROPERTIES

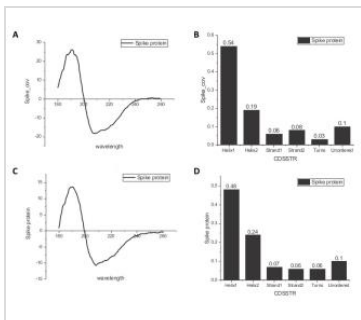
Form Liquid**Buffer** PBS, 20% Glycerol**Storage** Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.**Concentration** Batch dependent (Please refer to the vial label for the specific concentration.)**Region/Sequence** C-terminal 8x His tagged; 16-1213 a.a. (Uniprot #P0DTC2, D614G variant). Full-length soluble with foldon trimerization motif, mutated Furin recognition site and 3 stabilising mutations (F817P, K986P and V987P), based on/modified from Hsieh et al, 2020.**Expression System** HEK293 cells**Purification** Purified by affinity chromatography**Purity** > 90% by SDS-PAGE**Endotoxin** < 0.1 ng/µg (1 IEU/µg) determined by LAL method**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.**Target Info** The original Wuhan strain of SARS CoV2 virus has become quickly replaced by its more transmissible variant, mainly determined by a single amino acid point mutation D614G of Spike protein.

DATA IMAGES

**GTX02575-pro Image**

SDS-PAGE of GTX02575-pro SARS-CoV-2 (COVID-19) Spike (D614G variant) protein, His tag.

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GTX02575-pro Image

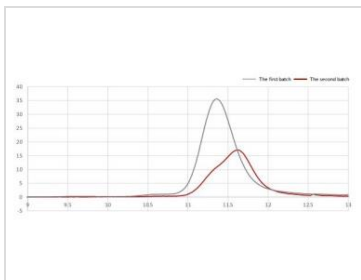
CD spectra of different cation forms of spike protein. The scanning fluorimetry data of the two batches shows the protein is both stable and functional, with heparin binding activity.

A and C : CD spectra were recorded on J-1100 spectrometer between 180 and 260 nm of spike protein (0.5 mg/ml).

B and D : Secondary structure were analysed by program CDSSTR of A and C, respectively.

A and B : the first batch of spike protein (PBS buffer).

C and D : the second batch of spike protein (PBS, 20% glycerol).

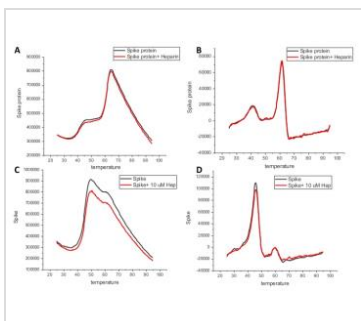


GTX02575-pro Image

Gel filtration analysis of 2 different batches of spike protein.

The first batch : spike protein in PBS buffer.

The second batch : spike protein in PBS, 20% glycerol.



GTX02575-pro Image

Differential scanning fluorimetry (DFS) analysis the stability and the heparin binding ability. DSF of proteins were performed in the absence or presence of heparin (10 μM). The scanning fluorimetry data of the two batches shows the protein is both stable and functional, with heparin binding activity.

A and C : Melting curve of spike protein.

B and D : First derivative of the melting curves of spike to show its melting temperature as peak.

A and B : the first batch of spike protein (PBS)

C and D : the second batch of spike protein (PBS, 20% glycerol).



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