

PRODUCT INFORMATION

SARS-CoV-2 Spike Protein (Soluble Spike), His-Tag (HEK)

Description:

InVivo offers a recombinant form of the spike glycoprotein from severe acute respiratory syndrome-related coronavirus (SARS-CoV-2), Wuhan-Hu-1-isolate (MN908947), which is produced under serum-free conditions in HEK-INV cells (InVivo proprietary optimized; human embryonic kidney, HEK293 cells).

The construct contains the SARS-CoV-2 spike glycoprotein, representing amino acid residues 14 to 1213 of before mentioned annotation. The protein contains a mutated polybasic/ furin cleavage site to Alanine, and mutations K986P / V987P for stabilization of the protein. The C-terminal transmembrane domain and endodomain were replaced by a thrombin cleavage site, a trimerization site and a C-terminal hexa-His-Tag [1]. The recombinant protein is purified using affinity chromatography and preparative SEC (for polishing).

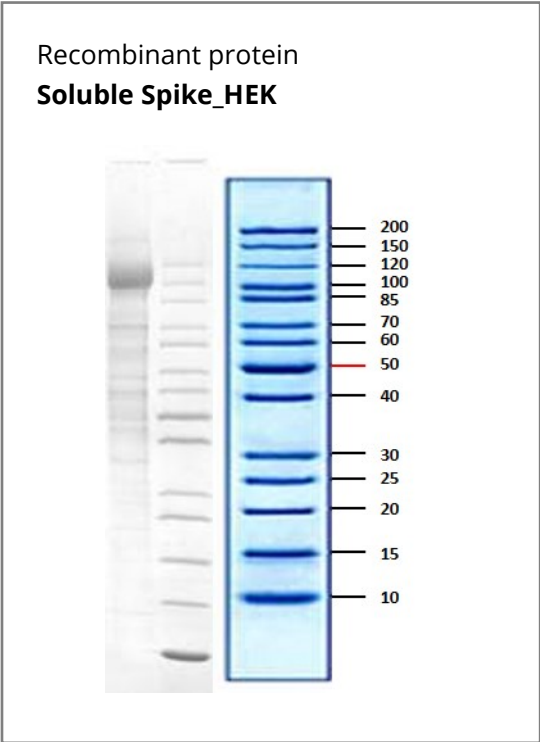
Product-ID:	Soluble Spike_HEK, RP_SZ_773
Expression System:	Mammalian; HEK cells
Protein Accession Number:	QHD43416.1
Amino Acids:	14-1213, modified as mentioned above
Tag:	6 x His-Tag; C-terminal
Expected Molecular Weight:	137 kDa (<i>Glycosylated form of Soluble Spike_HEK runs at 100-150 kDa in SDS-PAGE</i>)
Formulation:	Liquid; 20 mM NaPP, 300 mM NaCl pH 7.2
Concentration:	≥ 0.5 mg/ml

The product is for research use or for further manufacturing only.

References

[1] Amanat, F. et al. A serological assay to detect SARS-CoV-2 seroconversion in humans, *Nat. Med.* 26, 1033-36 (2020)

Protein mass (SDS-PAGE, under reducing conditions):



Please note: Glycosylated form of Soluble Spike_HEK runs at 100-150 kDa

Protein Activity (ELISA):

