SARS-CoV-2 Spike Protein S1-Receptor-Binding Domain - Omicron (BA.2)_HEK

Description:

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

RBD-Omicron (BA.2) variant; containing mutations G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y and Y505H.

BA.2 is the second most common Omicron sub lineage. InVivo's construct contains 16 mutations, which all occur with a frequency of >75% (based on public data from https://outbreak.info/).

Protein design and manufacturing process is based on InVivo's RBD protein (aa 319-541). The protein includes a C-terminal hexa-histidine-tag and is purified using affinity chromatography (AC) and preparative SEC (for polishing).

Product-ID:	S1-RBD-Omicron (BA.2)_HEK
Expression System:	Mammalian; HEK
Protein Accession Number:	GenBank: QHD43416.1 / UniProt: P0DTC2
Amino Acids:	Arg319–Phe541, modified as mentioned above
Mutations:	G339D, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, S477N, T478K, E484A, Q493R, Q498R, N501Y, Y505H
Mature Protein N-Term:	Arg319 (predicted)
Tag:	6 x His-Tag; C-terminal
Expected Molecular Weight:	26 kDa (*glycosylated form runs at 25-40 kDa in gel electrophoresis)*
Formulation:	Liquid, 20 mM NaPP, 300 mM NaCl pH 7.2
Concentration:	≥ 0.5 mg/ mL
Recommended storage temp:	< –15°C
Shipping condition:	on dry ice

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

IVS CS-058.2