

SARS CoV-2 full-length Spike B.1.1.529 “Omikron” Mutation

Product	Catalog No.	Package size
CoV-2 Spike B.1.1.529 Mutation (25 µg)	28750	25 µg
CoV-2 Spike B.1.1.529 Mutation (100 µg)	28751	4 x 25 µg
CoV-2 Spike B.1.1.529 Mutation (500 µg)	28752	500 µg

Please contact us for bulk quantities and for SARS CoV-2 spike protein reconstituted into nanodiscs.

Product Description

Alternative names	SPIKE_SARS2 Spike glycoprotein
UniProt number	PODTC2
Protein class	Single span transmembrane protein
Organism	Severe acute respiratory syndrome coronavirus 2 (2019-nCoV) (SARS-CoV-2)
Sequence	Full-length sequence (aa 1 – 1273), A67V; H69del; V70del; T95I; G142D; V143del; Y144del; Y145del; N211del; L212I; INS 214EPE; G339D; S371L; S373P; S375F; K417N; N440K; G446S; S477N; T478K; E484A; Q493K; G496S; Q498R; N501Y; Y505H; T547K; D614G; H655Y; N679K; P681H; N764K; D796Y; N856K; Q954H; N969K; L981F furin cleavage site “RRAR” mutated to “GSAG”; KV986PP C-terminal Rho1D4 tag fused with spacer “GSSG” to protein sequence
Affinity tag	C-terminal Rho1D4
Expression Host	Hek293 Expi cells
Size	1286 amino acids (including Rho1D4 tag and linker) 141969 Da
Buffer composition	20 mM Hepes pH 7.5; 150 mM NaCl, 0.001 % LMNG
Function	host cell surface receptor binding; fusion of virus membrane with host endosome membrane

Quality Control

Purity (SDS-PAGE)	>98% as determined by SDS-PAGE, see Fig. 1
Activity	not determined

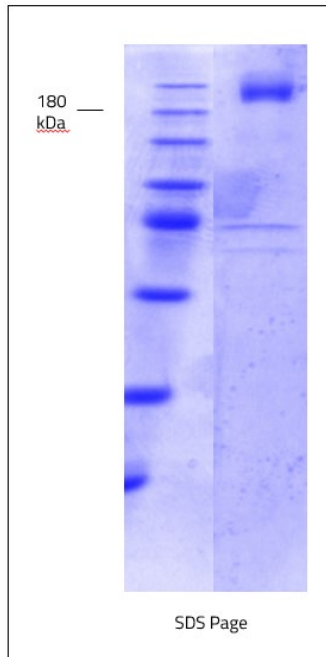


Fig. 1: Size and purity of CoV-2 spike protein B.1.1.529 Omikron assessed by SDS-PAGE

Preparation:

Expression system	Hek293 Expi cells
Purification	PureCube Rho1D4 Agarose
Buffer	20 mM HEPES pH 7.5, 150 mM NaCl, 0.001 % LMNG
Form	Liquid

Applications

- ELISA assays
- Ligand binding assays (e.g. SPR)
- Biochemical and biophysical analyses

Shipping & Storage

Shipping conditions	Dry ice
Storage conditions	-80°C. Avoid freeze-thaw cycles

Disclaimer: Our products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

Proteins are our passion.