

SARS-CoV-2 S1 Protein (Omicron, B.1.1.529, C-His)

Cat. No.:	HY-P74445A
Synonyms:	SARS-CoV-2 Protein; SARS-CoV-2 Spike Protein
Species:	Virus
Source:	HEK293
Accession:	YP_009724390.1 (V16-R685 with mutations A67V, HV69-70 deletion, T95I, G142D, VYY143-145 deletion, N211 deletion, L212I, ins214EPE, G339D, S371L, S373P, S375F, K417N, N440K, G446S, S477N, T478K, E484A, Q493R, G496S, Q498R, N501Y, Y505H, T547K, D614G, H655Y, N679K, P681H)
Gene ID:	43740568
Molecular Weight:	Approximately 130 kDa

PROPERTIES

AA Sequence

VNLTTRTQLP	PAYTNSFTRG	VYYPDKVFRS	SVLHSTQDLF
LPFFSNVTWF	HVISGTNGTK	RFDNPVLPFN	DGVYFASIEK
SNIIIRGWIFG	TTLDSKTQSL	LIVNNAATNVV	IKVCEFQFCN
DPFLDHKNNK	SWMESEFRVY	SSANNCTFEY	VSQPFLMDLE
GKQGNFKNLR	EFVFKNIDGY	FKIYSKHTPI	IVREPEDLPQ
GFSALEPLVD	LPIGINITRF	QTLALHRSY	LTPGDSSSGW
TAGAAAYYVG	YLQPRTFLLK	YNENGTITDA	VDCALDPLSE
TKCTLKSFTV	EKG IYQTSNF	RVQPTESIVR	FPNITNLCPF
DEVFNATRFA	SVYAWNRKRI	SNCVADYSVL	YNLAPFFTFK
CYGVSPTKLN	DLCFTNVYAD	SFVIRGDEV R	QIAPGQTGNI
ADYNYKLPDD	FTGCVIAWNS	NKLDSKVSGN	YNYLYRLFRK
SNLKPFERDI	STEIYQAGNK	PCNGVAGFNC	YFPLRSYSFR
PTYGVGHQPY	RVVVL SFELL	HAPATVCGPK	KSTNLVKNK C
VNFNFNGLKG	TGVLTESNKK	FLPFQQFGRD	IADTTDAVRD
PQTL EILDIT	PCSFGGVSVI	TPGTNTSNQV	AVLYQGVNCT
EVPVAIHADQ	LTPTWRVYST	GSNVFQTRAG	CLIGAEYVNN
SYECDIPIGA	GICASYQTQT	KSHRRAR	

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION**Background**

SARS-Cov-2 is a enveloped positive-sense single-stranded RNA virus that causes COVID-19.

SARS-CoV-2 possesses four structural proteins, namely the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M), and nucleocapsid protein (N).

The SARS-Cov-2 S glycoprotein is located on the exterior of the viral particle, giving the coronavirus its crown-like appearance.

The SARS-Cov-2 S glycoprotein can mediate the attachment and entry of viral particles into host cells and is an important target for vaccine development, antibody therapy, and antigen-based diagnostic esting^{[1][2][3][4][5]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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