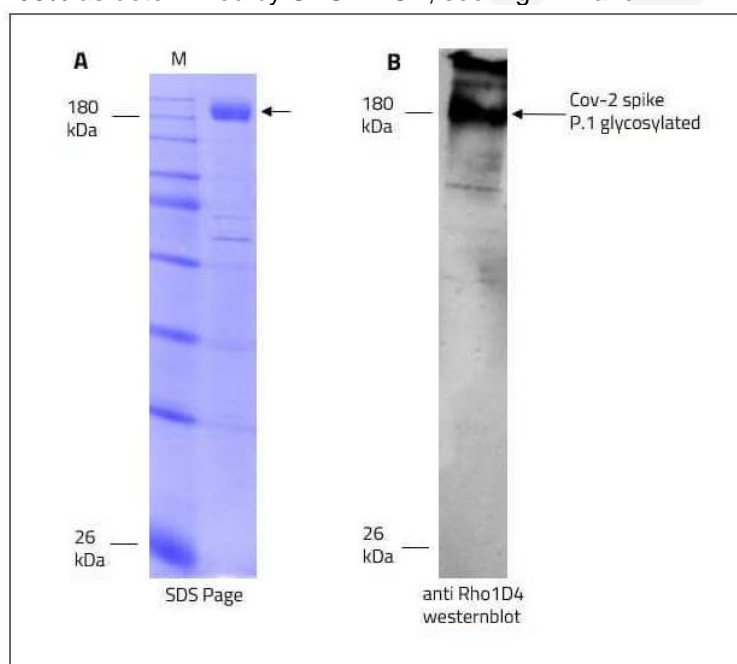


## Datasheet

### SARS-CoV-2 full-length Trimeric Spike Recombinant Antigen P.1 Mutation (Brazil Variant)

<b>Catalogue No:</b>	BSV-COV-PR-68	BSV-COV-PR-69	BSV-COV-PR-70	BSV-COV-PR-71
<b>Pack Size:</b>	25 µg	100 µg	500 µg	1 mg
<b>Product Name:</b>	SARS-CoV-2 full-length Spike P.1 Mutation (Brazil Variant)			
<b>WHO Reference:</b>	B.1.128			
<b>Description:</b>	Spike protein of the mutant strain P.1, also commonly known as the "Brazil Variant". It is a full-length protein, which is active in its native trimeric form, that is stabilized in LMNG detergent.			
<b>Alternative Name:</b>	SPIKE_SARS2 Spike glycoprotein			
<b>UniProt No:</b>	P0DTC2			
<b>Protein Class:</b>	Single span transmembrane protein			
<b>Organism:</b>	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)			
<b>Sequence:</b>	Full-length sequence (aa 1 – 1273), L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, H655Y, T1027I, V1176F furin cleavage site "RRAR" mutated to "GSAG"; KV986PP C-terminal Rho1D4 tag fused with spacer "GSSG" to protein sequence			
<b>Tag:</b>	C-terminal Rho1D4 tag for affinity purification			
<b>Host:</b>	Expressed in HEK293 Expi cells			
<b>Size:</b>	1286 amino acids (including Rho1D4 tag and linker) 142.11 kDa			
<b>Buffer:</b>	20 mM Hepes pH 7.5; 150 mM NaCl, 0.001% LMNG			
<b>Form:</b>	Liquid			
<b>Function:</b>	Host cell surface receptor binding; fusion of virus membrane with host endosome membrane			

>98% as determined by SDS-PAGE, see Fig. 1 A and B



**Purity:**

**Fig.1: Size, purity and oligomerization state of CoV-2 spike protein assessed by SDS-PAGE, Western Blot using a Rho1D4 antibody.**

<b>Activity:</b>	Not Determined
<b>Purification:</b>	Rho1D4 Agarose
<b>Applications:</b>	<ul style="list-style-type: none"> <li>• ELISA assays</li> <li>• Ligand binding assays</li> <li>• Biochemical and Biophysical analyses</li> </ul>
<b>Shipping:</b>	Dry ice
<b>Storage:</b>	-80°C. Avoid freeze-thaw cycles.
<b>Background:</b>	The P.1 variant was first detected in samples from Manaus in the Amazonas state in northern Brazil in mid-December. It was detected in 42% of the samples tested and estimated that nearly 76% of the population in Manaus had already been infected with COVID-19 by October 2020. It's now highly prevalent in the Brazilian state of Amazonas, and has been detected in countries including South Korea and the United States. This variant has the spike protein mutations N501Y, E484K and K417N just like the UK and South African variants which may support the virus evade antibodies.

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