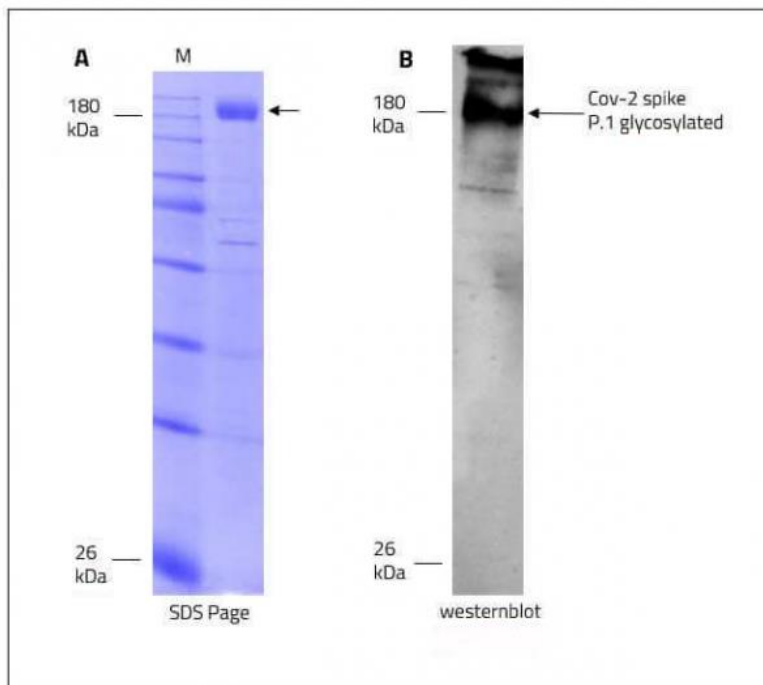


# Datasheet

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

Catalogue No:	BSV-COV-PR-69	BSV-COV-PR-71	BSV-COV-PR-90
<b>Pack Size:</b>	100 µg	1 mg	10 mg
<b>Product Name:</b>	SARS-CoV-2 full-length Trimeric Spike Recombinant Antigen P.1 Mutation (Brazil Variant)		
<b>WHO Label:</b>	Gamma		
<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"; K986P V987P		
<b>Host:</b>	Expressed in HEK293 Expi cells		
<b>Size (Trimeric):</b>	3 x 142 kDa = 426 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 and Western Blot.**

<b>Activity:</b>	Not Determined
<b>Applications:</b>	ELISA assays, Ligand Binding assays, Biochemical & Biophysical analyses
<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. Mutations of concern are K417T, E484K & N501Y.

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