

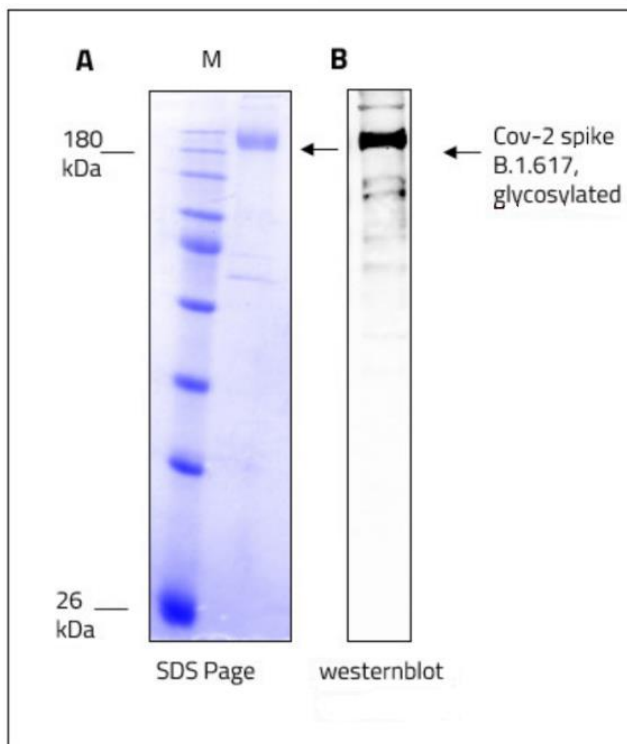
# Datasheet

## SARS-CoV-2 full-length Trimeric Spike Recombinant Antigen B.1.617 Mutation (Indian Variant)

Catalogue No:	BSV-COV-PR-92	BSV-COV-PR-94	BSV-COV-PR-95
<b>Pack Size:</b>	100 µg	1 mg	10 mg
<b>Product Name:</b>	SARS-CoV-2 full-length Trimeric Spike Recombinant Antigen B.1.617 Mutation (Indian Variant)		
<b>WHO Label:</b>	Kappa		
<b>Description:</b>	Spike protein of the mutant strain B.1.617, also commonly known as the "Indian 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), G142D, E154K, L452R, E484Q, D614G, P681R, Q1071H 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 B.1.617 variant is referred as a 'double mutation' since substitutions L452R & E484Q are caused by mutations in the gene encoding the SARS-CoV-2 spike protein. In countries other than India, the variant has been detected beginning late February in the United Kingdom and United States.

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