

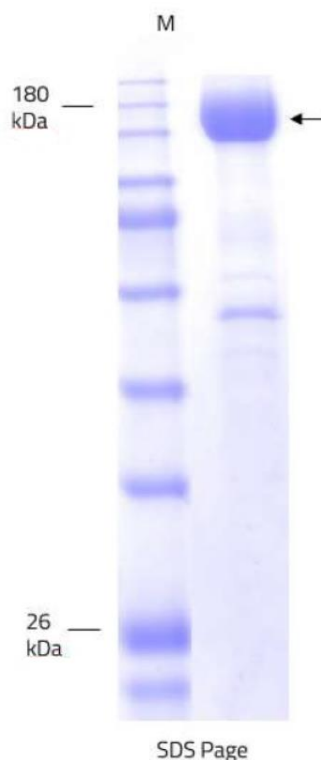
# Datasheet

## SARS-CoV-2 full-length Trimeric Spike Recombinant Antigen B.1.617.2 Mutation (Delta Variant)

<b>Catalogue No:</b>	BSV-COV-PR-97	BSV-COV-PR-98	BSV-COV-PR-99
<b>Pack Size:</b>	100 µg	1 mg	10 mg
<b>Product Name:</b>	SARS-CoV-2 full-length Trimeric Spike Recombinant Antigen B.1.617.2 Mutation (Delta Variant)		
<b>PHE Reference:</b>	B.1.617.2		
<b>Description:</b>	Spike protein of the mutant strain B.1.617.2, also commonly known as the "Delta 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), T19R, Del 157-158, L452R, T478K, D614G, P681R, D950N furin cleavage site "RRAR" mutated to "GSAG"; KV986P, 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.

**Purity:**



**Fig 1: Size, purity and oligomerization state of CoV-2 spike protein assessed by SDS-PAGE.**

<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>	Primarily detected in India and classified as a variant of concern, the B.1.617.2 variant has substitutions T478K, L452R & P681R due to mutations within the gene encoding the spike protein. These have enhanced transmissibility and evasion of neutralized antibodies.

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