CANADIAN LIFE SCIENCE
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Datasheet

SARS-CoV-2 full-length Trimeric Spike Recombinant Antigen B.1.429 Mutation (California/CAL.20C Variant)

Catalogue No:	BSV-COV-PR-82	BSV-COV-PR-84	BSV-COV-PR-85
Pack Size:	100 µg	1 mg	10 mg
Product Name:	SARS-CoV-2 full-length Trimeric Spike Recombinant Antigen B.1.429 Mutation (California/CAL.20C Variant)		
CDPH Reference:	CAL.20C		
Description:	Spike protein of the mutant strain B.1.429, also commonly known as the “California Variant”. It is a full-length protein, which is active in its native trimeric form, that is stabilized in LMNG detergent.		
Alternative Name:	SPIKE_SARS2 Spike glycoprotein		
UniProt No:	P0DTC2		
Protein Class:	Single span transmembrane protein		
Organism:	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)		
Sequence:	Full-length sequence (aa 1 – 1273), S13I, W152C, L452R, D1183Y furin cleavage site “RRAR” mutated to “GSAG”; KV986PP, V987P		
Host:	Expressed in HEK293 Expi cells		
Size (Trimeric):	3 x 142 kDa = 426 kDa		
Buffer:	20 mM Hepes pH 7.5; 150 mM NaCl, 0.001% LMNG		
Form:	Liquid		
Function:	Host cell surface receptor binding; fusion of virus membrane with host endosome membrane		

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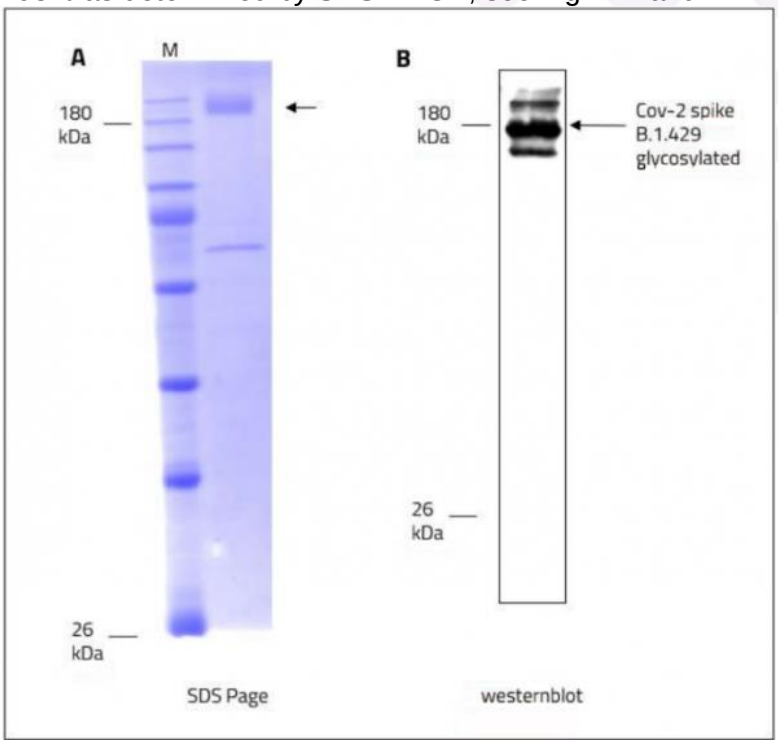
Purity:	>98% as determined by SDS-PAGE, see Fig. 1 A and B  **Fig.1: Size, purity and oligomerization state of CoV-2 spike protein assessed by SDS-PAGE and Western Blot**.
Activity:	Not Determined
Applications:	ELISA assays, Ligand Binding assays, Biochemical & Biophysical analyses
Shipping:	Dry ice
Storage:	-80°C. Avoid freeze-thaw cycles.
Background:	The B.1.429 variant is defined by four distinct mutations (D1183Y in the ORF1ab-gene, and S13I, W152C, L452R in the spike proteins S-gene), of which the L452R (previously also detected in other unrelated lineages) was of particular concern. B.1.429 is possibly more transmissible, but further study is necessary to confirm this.

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

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