Recombinant SARS-COV-2 S protein RBD (N501Y) Protein (His Tag)



Cat. No. bs-46011P

Description		
Protein Sequence	SARS-COV-2 S protein RBD (N501Y) is expressed with a His tag at the C-terminal (Arg319- Phe541).	
Source	Mammalian Expression System	
Accession	QHD43416.1	
Mol wt	The protein has a predicted MW of 26.2 kDa. Due to glycosylation, the protein migrates to 36-40KDa based on Bis-Tris PAGE result.	
Endotoxin	Less than 1EU per ug by the LAL method.	
- <i>u</i>	>95% as determined by Bis-Tris PAGE	
Purity	>95%as determined by HPLC	
Activity assay	Not tested.	
Formulation an	d Storage	
Formulation	Lyophilized powder (Lyophilized from 0.22um filtered solution in 20mM PB (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.)	
Storage	The product should be stored at -70 $^{\circ}$ C or -20 $^{\circ}$ C.	
Background		
	converting enzyme 2 (ACE2). A defined	V) attaches the virus to its cellular receptor, angiotensin- receptor-binding domain (RBD) on S mediates this s in the induction of neutralizing-antibody and T-cell ty.
Assay Data		
Tris-Bis PAGE		HPLC Data
	140KD 115KD 80KD 70KD 50KD 40KD 30KD 25KD 15KD 10KD	20- 15- 10- 5- 0-
SARS-COV-2 S pro	tein RBD (N501Y) on Tris-Bis PAGE	The purity of SARS-COV-2 S protein RBD (N501Y) is
	ition. The purity is greater than 95%.	greater than 95% as determined by SEC-HPLC
	RS-CoV-2 S protein RBD (N501Y), His Tag ELISA 5µg SARS-CoV-2 protein RBD (N501Y), His Tag Per Well	SPR Data
2.5 () () () () () () () () () ()]	Human ACE2 captured on protein A chip, can bind SARS-CoV S protein RBD (N501Y), His Tag with an
	E2, Fc Tag with the EC50 of	affinity constant of 1.74nM as determined in SPR assay (Biacore T200).