


Rev03
Update: Dec,14,2021

DATASHEET

SARS-CoV-2 Spike protein (S1, E484K, K417T, N501Y, His Tag)

Cat. No.: Z03602

Product Introduction

Species	SARS-CoV-2
Protein Construction	Expressed with the mutations of E484K, K417T, N501Y. 
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	This protein is validated to bind with human ACE2 in functional ELISA assay.
Expression System	CHO
Theoretical Molecular Weight	75.7 kDa
Formulation	Supplied as a solution in PBS, pH 7.4.
Concentration	Please refer to the COA for the specific lot.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -20°C or below. Please avoid repeated freeze-thaw cycles.

Background

Target Background : SARS-CoV-2 (Severe Acute Respiratory Syndrome Coronavirus 2) also known as 2019-nCoV (2019 Novel Coronavirus) is a virus that causes illnesses ranging from the common cold to severe diseases. Lineage P.1, also known as the Brazil(ian) variant is one of the variants of SARS-CoV-2. This variant has 17 amino acid changes, ten of which are in its spike protein, including these three designated to be of particular concern: N501Y, E484K and K417T. SARS-CoV-2 Spike protein (S1, E484K, K417T, N501Y, His Tag) carries a polyhistidine tag at the C-terminus.

Synonyms : Lineage P.1; 20J/501Y.V3; VOC-202101/02; Brazil(ian) variant; Gamma variant

References :

1. [Variants: distribution of cases data. GOV.UK. Retrieved 27 February 2021.](#)
2. [COVID-19: Virologist says Brazilian coronavirus variant detected in UK is not the one 'of concern'.](#)
3. [Genomic characterisation of an emergent SARS-CoV-2 lineage in Manaus: preliminary findings.](#)

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.