



# SARS-CoV2 Spike RBD N501Y mutant

Datasheet, Version 2/2016

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Catalog #	2104
Synonyms	RBD
Type	Recombinant
Source	E. coli
Species	SARS-CoV2
Tag	His6
Form	Liquid
Purity	>95% by SDS PAGE
Shipping	Ice pack

## Introduction

Recombinant SARS-CoV-2 RBD domain with C-terminal His-tag, expressed into periplasm of E. coli.

## Description

The spike (S) glycoprotein of coronaviruses mediates binding and entry of the virus into the host cell. The S protein is also a major immunogen and a target for development of antiviral drugs. The spike protein is a transmembrane protein composed of two subunits, S1 and S2. The S1 subunit contains a receptor-binding domain (RBD) responsible for binding to the receptor angiotensin-converting enzyme 2 (ACE2). Several mutants of the spike protein has been identified so far with various affinity to ACE2 and changed immunogenicity.

## Application

ELISA, Western blot, LIA, Protein arrays

## Purification method

Affinity chromatography.

## Formulation

500 ug/mL, 10mM Tris pH 7.5, 50mM KCl

## Specificity

RBD domain of the Spike protein (AA 319-541) from original Wuhan-Hu-1 isolate (NC\_045512). The N501Y mutation is characteristic for all three of the currently observed fast spreading SARS-CoV-2 virus variants B.1.1.7, B.1.351 and P1.

## Storage

-80C. Aliquot upon arrival.

**For research use only. Not for use in diagnostic procedures.**

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