Active Recombinant COVID-19 XBB (Omicron) Spike RBD protein, His-tagged

Cat. No. Spike-800V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant COVID-19 XBB (Omicron) Spike RBD protein (YP_009724390.1, with mutation G339H, R346T, L368I, S371F, S373P, S375F, T376A, D405N, R408S, K417N, N440K, V445P, G446S, N460K, S477N, T478K, E484A, F486S, F490S, Q498R, N501Y, Y505H) (Arg319-Phe541) was expressed in HEK293, fused with a polyhistidine tag at the C-terminus.
Species	Sars-CoV-2
Source	HEK293
ProteinLength	Arg319-Phe541
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Immobilized human ACE2 protein (Fc tag) at 2 μg/mL (100 μL/well) can bind Recombinant SARS-CoV-2 XBB (Omicron) Spike RBD Protein (His Tag), the EC50 is 30-90 ng/mL.
Molecular Mass	The recombinant SARS-CoV-2 Spike RBD consists of 234 amino acids and predicts a molecular mass of 26.57 kDa. As a result of glycosylation, it migrates as an approximately 35.46 kDa band in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per μg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized powder in sterile water to 100-200 ug/ml, and further dilute with other solvents. The dissolved protein can be stored at 4°C for 2-7 days and should be used up as soon as possible. If not in use for a short time, please store at -20°C.

GENE INFORMATION

Gene Name	S surface glycoprotein [Severe acute respiratory syndrome coronavirus 2]
Official Symbol	S
Synonyms	Spike; S1 protein; Spike glycoprotein Subunit1; S glycoprotein Subunit1; Spike protein S1; COVID-19 Omicron
Gene ID	43740568
Protein Refseq	YP_009724390.1
UniProt ID	P0DTC2

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