

Product no **AS20 4389****Human Novel Coronavirus Spike glycoprotein(S)****Product information****Format** | Lyophilized

Storage | Store lyophilized/reconstituted at -20°C/-80°C. Reconstitute in deionized sterile water to a concentration from 0.1-1.0 mg/ml and add 5-50% of glycerol (final concentration). 50 % glycerol is a default final recommended concentration. Make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube. Working aliquotes can be stored at 4 °C for up to one week. Shelf life of liquid form is 6 monthss at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.

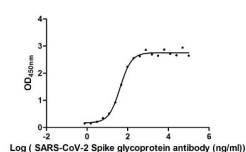
Application information

Additional information | N-terminal His tagged Spike glycoprotein (S) (10xHis) and C-terminal FLAG-tagged, was overexpressed in HEK293 mammalian cells using transfection reagent, in the region 16-685 amino acids UniProt: [P0DTC2](#)

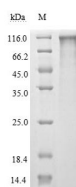
VNLTTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAIHVS
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VIKVFCEFCNDPFLGVYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDL
EGKQGNFKNLREFVFNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINI
TRFQTLLALHRSYLTGPDSSSGWTAGAAAYVGYLQPRFTLLKYNENGTITDAVD
CALDPLSETKCTLSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATR
FASVYAWNKRISNCVADYSVLNSASFSTFKCYGVSPTKLNDLCFTNVYADSF
VIRGDEVQRQIAPGQTGKIADYNYKLDDFTGCVIAWNSNNLDSKVGGNYNYLY
RLFRKSNLKPFERDISTEIQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQP
YRVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNFGLTGTGVLTESNKKFLPF
QQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQDVN
CTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSECDIPIGAGI
CASYQTQTNSPRRAR

Purity: >85 % as confirmed by SDS-PAGE

Buffer: 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

Application example

Functional ELISA showing binding ability. Wells were coated with SARS-CoV-2-S at 2 µg/ml which can bind SARS-CoV-2-S Antibody ([AS20 4386](#)), the EC₅₀ of SARS-CoV-2-S protein is 36.79-48.87 ng/ml



Recombinant Human Novel Coronavirus Spike glycoprotein (S) was separated on Tris-Glycine gradient SDS-PAGE in reduced conditions. Calculated MW of a target protein is 79.6 kDa, however it migrates at 116 kDa in applied conditions due to glycosylation.