

SARS-CoV S2 Protein (sf9, His)

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| Cat. No.: | HY-P73667 |
| Synonyms: | Spike glycoprotein; S glycoprotein; Peplomer protein; S |
| Species: | Virus |
| Source: | Sf9 insect cells |
| Accession: | NP_828851 (S668-P1195) |
| Gene ID: | 1489668 |
| Molecular Weight: | Approximately 59.65 kDa |

PROPERTIES

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| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 300 mM NaCl, 10% Glycerol, pH 7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | <p>SARS-CoV spike glycoprotein 2 (S2) is a subunit of SARS-CoV Spike glycoprotein, along with S1 and S2'. S1 (14-667) can attach the virion to the cell membrane by interacting with host receptor, initiating the infection. S2 (668-1255) mediates fusion of the virion and cellular membranes by acting as a class I viral fusion protein, during endocytosis, S2 is cleaved into S2' (798-1255).</p> <p>S protein orchestrates viral entry by attaching the virion to the cell membrane through interactions with human ACE2 and CLEC4M/DC-SIGNR receptors. Following attachment, internalization into host cell endosomes induces S glycoprotein conformational changes, potentially unmasking the fusion peptide of S2 through cathepsin CTSL proteolysis^{[1][2]}.</p> |
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Caution: Product has not been fully validated for medical applications. For research use only.

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