

Recombinant SARS-CoV-2 NSP7 Protein (His Tag)

Catalog Number: PKSR030469

Note: Centrifuge before opening to ensure complete recovery of vial contents.

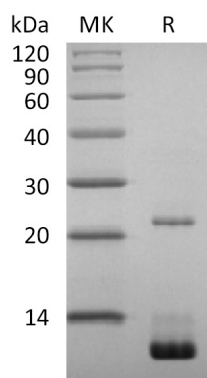
Description

Species	SARS-CoV-2
Source	E.coli-derived SARS-CoV-2 NSP7 protein Ser1-Gln83, with an C-terminal His
Calculated MW	12.3 kDa
Observed MW	12 kDa
Accession	YP_009725303.1
Bio-activity	Not validated for activity

Properties

Purity	> 87 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, 0.01%Tween 80, pH 8.5.

Data



Background

The ~30kb positive-stranded RNA genome of coronaviruses encodes a replication/transcription machinery that is unusually complex and composed of 16 nonstructural proteins (nsps). The four proteins nsp7 to nsp10, which are conserved among all CoVs but have no functional homologs outside of the Coronaviridae, are translated as part of the viral polyproteins pp1a and pp1ab, and the mature proteins are released by the action of the SARS-CoV protease nsp5. Hexadecamer of nsp7 and nsp8 may possess dsRNA-binding activity. SARS-CoV2 nonstructural protein 7 (nsp7) is of interest for its potential roles in the transcription and replication of the positive-stranded viral RNA genome.