Recombinant SARS-CoV-2 (Covid-19) NSP1

CatalogNo: YD2199

Key Features

Reactivity
- Human virus

MW
- 22kD (Calculated)

22-23kD (Observed)

Storage

Storage*	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 °C for one week . Store at -20 to -80 °C for twelve months from the date of receipt.

Recommended Dilution Ratios

Basic Information

Source	E.coli
Purification	E.coli
Purity	>90% as determined by SDS-PAGE

Immunogen Information

Target Information

Gene name	ORF1ab

Protein Name SARS-CoV 2 nsp1,SARS-CoV 2 Leader protein

Organism	Gene ID	UniProt ID
Human	YP_009725297.1;	

Function The Severe Acute Respiratory Syndrome (SARS) Coronavirus (CoV) is an enveloped, positive-stranded RNA viruses that can cause a severe respiratory disease. Its genome consists of a ~30 kb linear, non-segmented, capped, polycistronic, polyadenylated RNA molecule, the first two-third of which is directly translated into two large polyproteins. These two polypeptides are processed into 16 non-structural proteins (nsps), forming the replicase complex, which is active in the cytoplasm in close association with cellular membranes. Nsp1 was proved to be able to suppress host gene expression by promoting host mRNA degradation and was involved in cellular chemokine deregulation. This virus evades the host innate immune response in part through the expression of its non-structural protein (nsp) 1, which inhibits both host gene expression and virus- and interferon (IFN)-dependent signaling. Thus, nsp1 is a promising target for drugs, as inhibition of nsp1 would make SARS-CoV more susceptible to the host antiviral defenses.

Validation Data

Contact information

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Please scan the QR code to access additional product information: **Recombinant SARS-CoV-2 (Covid-19) NSP1**