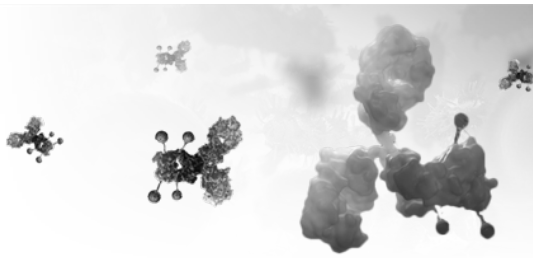

Recombinant SARS-CoV-2 NSP1 [His] (DAGC167)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant SARS-CoV-2 NSP1 is produced by our E.coli expression system and the target gene encoding Met1-Gly180 is expressed with a 6His tag at the C-terminus.
Species	coronavirus
Purity	Greater than 85% as determined by reducing SDS-PAGE.
Conjugate	His
Molecular Weight	22.7kDa
Format	Liquid
Size	50 µg
Buffer	Supplied as a 0.2 um filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 8.5.
Preservative	None
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

BACKGROUND

Introduction	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

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

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.

Keywords SARS-CoV 2 nsp1; SARS-CoV 2 Leader protein; SARS-CoV-2

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221