Recombinant SARS-CoV-2 NSP13 protein

Catalog Number:PKSV030328

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

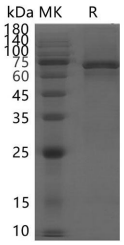
Description

Synonyms	SARS-CoV 2 nsp13;Helicase
Species	SARS-CoV-2
Expression Host	E.coli
Sequence	Ala5325-Gln5925
Accession	QHD43415.1
Calculated Molecular Weight	69.2 kDa
Tag	N-His

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyopilized from PBS pH7. 4,0.02%NLS, 1mM EDTA, 4%trehalose,1% mannitol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

NSP13 is a 67?kDa protein that belongs to the helicase superfamily 1B, it utilizes the energy of nucleotide triphosphate hydrolysis to catalyze the unwinding of double-stranded DNA or RNA in a 5′ to 3′ direction. Although NSP13 is believed to act on RNA in vivo enzymatic characterization shows a significantly more robust activity on DNA in in vitro assays with relatively weak non processive helicase activity when compared to other superfamily 1B enzymes. NSP13 has been shown to interact with the viral RNA-dependent RNA polymerase NSP1210,11, and acts in concert with the replication-transcription complex (NSP7/NSP8/NSP12). This interaction has been found to significantly stimulate the helicase activity of NSP13 possibly by means of mechano-regulation. In addition to its helicase activity, NSP13 also possesses RNA 5′ triphosphatase activity within the same active site, suggesting a further essential role for NSP13 in the formation of the viral 5′ mRNA cap.

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