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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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Recombinant SARS Coronavirus Nucleocapsid (1-422 a.a.)

CLSARS250
CLSARS250-2
CLSARS250-3

Introduction: SARS Coronavirus is an enveloped virus containing three outer structural proteins, namely the membrane (M), envelope (E), and spike (S) proteins. Spike (S)-glycoprotein of the virus interacts with a cellular receptor and mediates membrane fusion to allow viral entry into susceptible target cells. Accordingly, S-protein plays an important role in virus infection cycle and is the primary target of neutralizing antibodies.

Description: The Recombinant SARS-CoV Nucleocapsid Protein is manufactured with N-terminal fusion His Tag. The Recombinant SARS-CoV Nucleocapsid His-Tagged Fusion Protein is 47.8kDa containing 437 amino acid residues of the SARS-CoV Nucleocapsid protein and 16 additional amino acid residues – His Tag (underlined).

Source: *Escherichia coli*.

Presentation: 5 µg (CLSARS250), 20 µg (CLSARS250-2), or 1 mg (CLSARS250-3), sterile filtered (0,4µm) and lyophilized from 0.5 mg/ml in 0.05M Acetate buffer pH4.

Solubility: Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/ml. In higher concentrations the solubility of this antigen is limited.

Purity: Greater than 95% as determined by SDS-PAGE.

Stability: Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

AA Sequence: MRGSHHHHHH GMASHMSDNG PQSNQRSAPR ITFGGPTDST DNNQNGGRNG
ARPKQRRPQG LPNNTASWFT ALTQHGKEEL RFPRGQGVPI NTNSGPDDQI GYYRRATRRV
RGGDGKMKEL SPRWYFYLLG TGPEASLPYG ANKEGIVVVA TEGALNTPKD HIGTRNPNNN
AATVLQLPQG TTLPKGFYAE GSRGGSQASS RSSRSRGNRS RNSTPGSSRG NSPARMASGG GETALALLLL
DRLNQLESKV SGKGQQQQGQ TVTKKSAAEA SKKPRQKRTA TKQYNVTQAF GRRGPEQTQG
NFGDQDLIRQ GTDYKHWPQI AQFAPSASAF FGMSRIGMEV TPSGTWLTYH GAIKLDDKDP
QFKDNVILLN KHIDAYKTFP PTEPKKDKKK KTDEAQLPQ RQKKQPTVTL LPAADMDDFS
RQLQNSMSGASADSTQA.

Laboratory Reagent for Research Use Only

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