

Cynomolgus CCN4 Protein, His Tag

Catalog # CC4-C52H3



Synonyms

CCN4

Source

Cynomolgus CCN4 Protein, His Tag (CC4-C52H3) is expressed from human 293 cells (HEK293). It contains AA Thr 23- Asn 367 (Accession # [XP_005564175.1](#)).

Predicted N-terminus: Thr 23

Molecular Characterization

CCN4(Thr 23- Asn 367) XP_005564175.1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 40.0 kDa. The protein migrates as 50-60 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

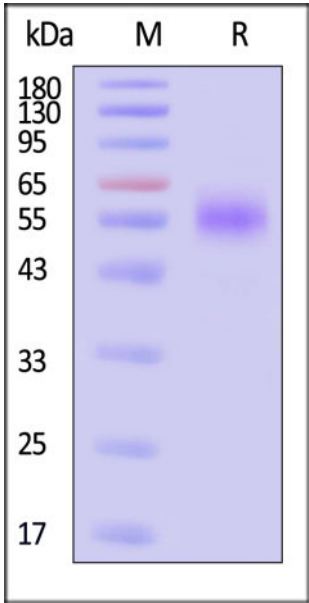
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Cynomolgus CCN4 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Background

CCN4 encodes a matricellular protein in the connective tissue growth factor family that is induced by WNT1 and functions as a downstream effector of Wnt/Frizzled signaling. It is highly expressed in colon tumors and in multiple adult tissues, with strong expression reported in connective tissue and high protein expression in the brain, proximal digestive tract, and gastrointestinal tract. The protein is found in the extracellular region as well as the cytosol and cytoplasm. CCN4 promotes cell survival by activating AKT kinase, which suppresses p53-mediated apoptosis and up-regulates the anti-apoptotic protein Bcl-X(L). It binds the extracellular matrix proteoglycans decorin and biglycan, two small leucine-rich proteoglycans, and this binding has been linked to inhibition of their effects on tumor cell proliferation. These features place CCN4 at the interface of secreted signaling, extracellular matrix regulation, and survival signaling.



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