Human ZNRF3 protein, His Tag (MALS verified)

Catalog # ZN3-H52H3

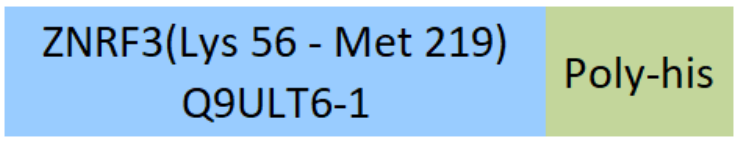
Synonym

ZNRF3, Zinc,RING finger protein 3, RING-type E3 ubiquitin transferase ZNRF3, RING finger protein 203, KIAA1133, RNF203

Source

Human ZNRF3, His Tag (ZN3-H52H3) is expressed from human 293 cells (HEK293). It contains AA Lys 56 - Met 219 (Accession # Q9ULT6-1). Predicted N-terminus: Lys 56

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 19.7 kDa. The protein migrates as 22-25 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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.

Storage

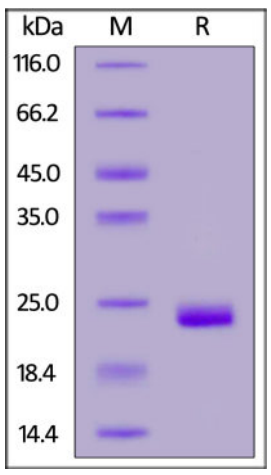
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

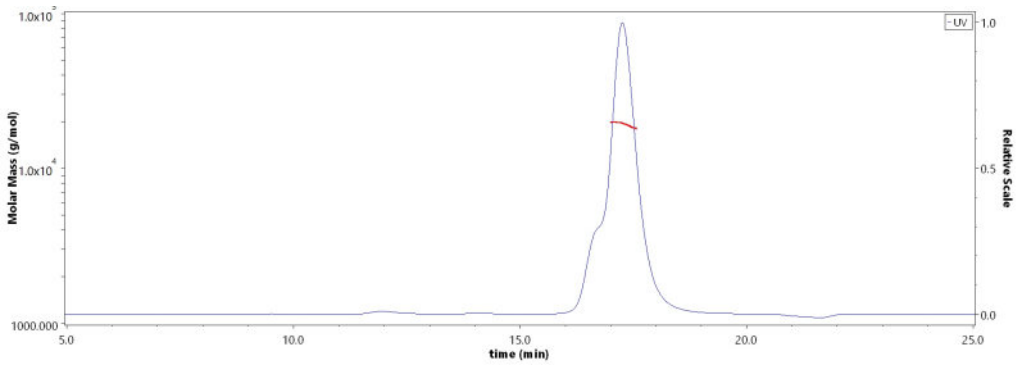
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



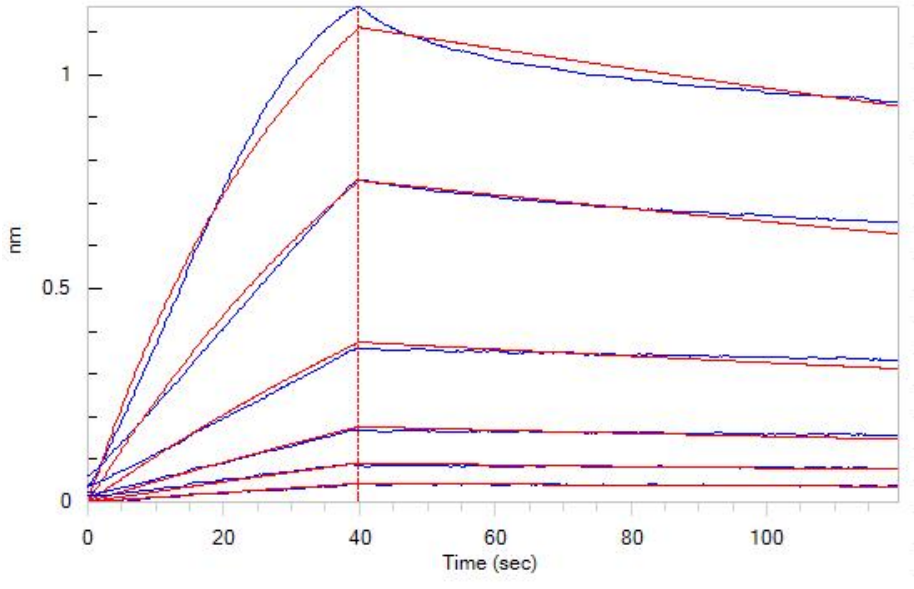
Human ZNRF3, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

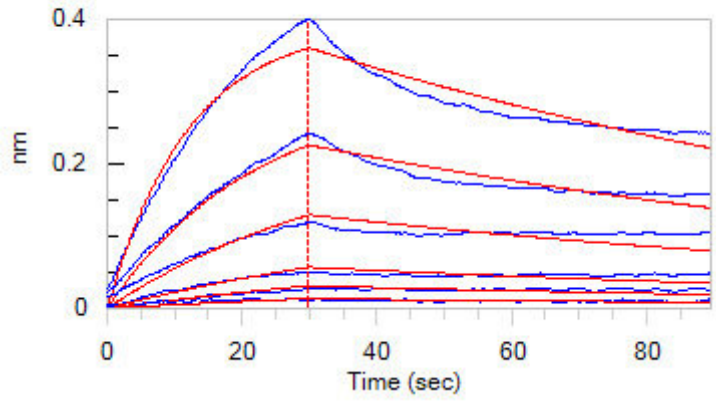


The purity of Human ZNRF3, His Tag (Cat. No. ZN3-H52H3) is more than 90% and the molecular weight of this protein is around 18-27 kDa verified by SEC-MALS.
Report

Bioactivity-BLI



Loaded Human ZNRF3, His Tag (Cat. No. ZN3-H52H3) on HISIK Biosensor, can bind Human R-Spondin 3 Protein, Fc Tag with an affinity constant of 16.05 nM as determined in BLI assay (ForteBio Octet Red96e) (QC tested).



Loaded Human R-Spondin 3 Protein, Fc Tag on Protein A Biosensor, can bind Human ZNRF3, His Tag (Cat. No. ZN3-H52H3) with an affinity constant of 10.9 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

The transmembrane E3 ubiquitin ligase zinc and ring finger 3 (ZNRF3) is a negative feedback regulator of Wnt signalling. ZNRF3 is associated with the Wnt receptor complex, and inhibits Wnt signalling by promoting the turnover of frizzled and LRP6 and acts as a tumor suppressor in the intestinal stem cell zone by inhibiting the Wnt signaling pathway.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.