

ZNRF3 Protein, Human, Recombinant (His)

General Information

Synonyms:	E3 ubiquitin-protein ligase ZNRF3; KIAA1133; RING-type E3 ubiquitin transferase ZNRF3; ZNRF3; RNF203; RING finger protein 203; Zinc/RING finger protein 3
Protein Construction:	56-219 aa
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9ULT6
Molecular Weight:	20.4 kDa (predicted)
AA Sequence:	KETAFVEVVLFESSPSGDYTTYTTGLTGRFSRAGATLSAEGEIVQMHPLGLCNNNDEEDLYEYGWVGVVLEQ PELDPKPCLTVLGKAKRAVQRGATAVIFDVSENPEAIDQLNQGSSEPLKRPVVYVKGADAIKLMNIVNKQKVA RARIQHRPPRQPTEYFDM

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized Human ZNRF3 at 5 µg/mL can bind Human RSPO2, the EC 50 is 5.091-6.991 ng/mL.
Purity:	> 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 6% Trehalose, pH 7.4

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

E3 ubiquitin-protein ligase that acts as a negative regulator of the Wnt signaling pathway by mediating the ubiquitination and subsequent degradation of Wnt receptor complex components Frizzled and LRP6. Acts on both canonical and non-canonical Wnt signaling pathway. Acts as a tumor suppressor in the intestinal stem cell zone

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by inhibiting the Wnt signaling pathway, thereby restricting the size of the intestinal stem cell zone. Along with RSP02 and RNF43, constitutes a master switch that governs limb specification.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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