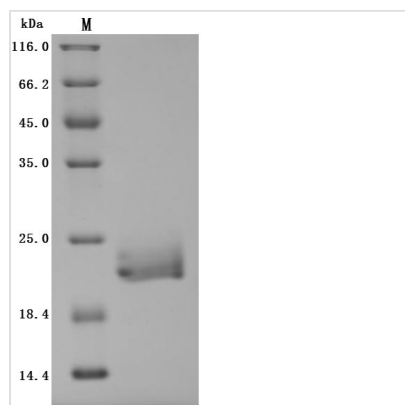


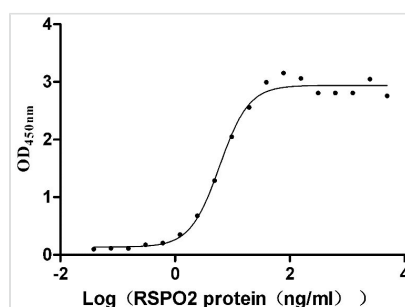


Recombinant Human E3 ubiquitin-protein ligase ZNRF3 (ZNRF3), partial (Active)

Product Code	CSB-MP890933HU
Abbreviation	Recombinant Human ZNRF3 protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9ULT6
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human ZNRF3 at 5 µg/mL can bind Human RSPO2 (CSB-MP751021HU1(M)), the EC ₅₀ is 5.091-6.991 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	KETAFVEVVLFESSPSGDYTTYTTGLTGRFSRAGATLSAEGEIVQMHPGLGCN NNDEEDLYEYGWVGWVKLEQPELDPKPCLTVLGKAKRAVQRGATAVIFDVSE NPEAIDQLNQGSSEPLKRPVVYVKGADAIKLMNIVNKQKVARARIQHRPPRQP TEYFDM
Source	Mammalian cell
Target Names	ZNRF3
Expression Region	56-219aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 6xHis-tagged
Mol. Weight	20.4 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity
Measured by its binding ability in a functional ELISA. Immobilized Human ZNRF3 at 5 µg/ml can bind Human RSPO2 (CSB-MP751021HU1(M)), the EC₅₀ is 5.091-6.991 ng/mL.

Description

The product was expressed with the C-terminal 6xHis-tagged human ZNRF3 gene fragment Lys56-Met219 in mammalian cells. Its purity is greater than 95%. Its activity and endotoxin have been determined.

ZNRF3 is a transmembrane E3 ubiquitin ligase acting as a negative regulator of the Wnt signaling pathway that targets Wnt receptors for ubiquitination and lysosomal degradation. Together with RNF43, ZNRF3 plays an important role in the development and tissue homeostasis by promoting the turnover of LPR6 and Frizzled (FZD). ZNRF3 and RNF43 are essential for embryonic patterning, sex determination, and limb morphogenesis. ZNRF3 is frequently inactivated in human cancers presenting as deletion or mutation to inhibit Wnt signaling. Loss of ZNRF3/RNF43 activity results in extensive cellular proliferation and metaplasia and has been related to EMT in many Wnt-associated malignancies.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.