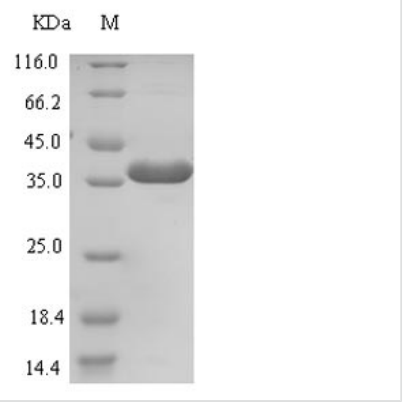
Recombinant Human E3 ubiquitin-protein ligase ZNRF3 (ZNRF3), partial

Product Code	CSB-EP890933HU
Relevance	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 by inhibiting the Wnt signaling pathway, thereby resticting the size of the intestinal stem cell zone.
Abbreviation	Recombinant Human ZNRF3 protein, partial
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
Alias	RING finger protein 203 Zinc/RING finger protein 3
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	KETAFVEVVLFESSPSGDYTTYTTGLTGRFSRAGATLSAEGEIVQMHPLGLCN NNDEEDLYEYGWVGVVKLEQPELDPKPCLTVLGKAKRAVQRGATAVIFDVSE NPEAIDQLNQGSEDPLKRPVVYVKGADAIKLMNIVNKQKVARARIQHRPPRQP TEYFDM
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
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	N-terminal 6xHis-SUMO-tagged
Mol. Weight	34.2kDa
Protein Length	Extracellular Domain
Image	



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

Description

The synthesis of this Recombinant Human ZNRF3 protein depends on the utilization of recombinant DNA technology. DNA sequences that encoded the ZNRF3 protein could be inserted into a vector and introduced into an expression host, E.coli, where it could be easily expressed in and purified from. The expression of this ZNRF3 protein was at 56-219aa. N-terminal 6xHis-SUMO tag was fused with this protein. The purity is 90%+ determined by SDS-PAGE.

ZNRF3 (also known as KIAA1133 or RNF203) is gene encoding a protein named E3 ubiquitin-protein ligase ZNRF3 (ZNRF3) in human. The protein encoded by this gene is also known as RING finger protein 203, RING-type E3 ubiquitin transferase ZNRF3 or Zinc/RING finger protein 3. Emerging evidence has implied that ZNRF3 is associated with the Wnt receptor complex, and inhibits Wnt signalling by promoting the turnover of frizzled and LRP6. The protein encoded by ZNRF3 gene is an enzyme that has ubiquitin protein ligase and ubiquitin-protein transferase activity. It is involved many biological processes, including limb development, negative regulation of Wnt signaling pathway, stem cell proliferation and protein ubiquitination.

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

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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.