

Active Recombinant Mouse zinc and ring finger 3 protein, Fc tagged

Cat. No. Znrf3-33M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse zinc and ring finger 3 protein (Lys53-Met216) with Mouse IgG2a (Glu98-Lys330) Fc tag at C-terminus was expressed in Mouse myeloma cell line.
Species	Mouse
Source	Mouse myeloma cell
ProteinLength	53-216 aa
Description	Predicted to enable frizzled binding activity and ubiquitin protein ligase activity. Involved in regulation of Wnt signaling pathway and stem cell proliferation. Predicted to be active in plasma membrane. Is expressed in forelimb mesenchyme; lung; ovary; and skin. Orthologous to human ZNRF3 (zinc and ring finger 3).
Tag	Fc
Form	Disulfide-linked homodimer
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse R-Spondin 3 is coated at 0.25 µg/mL, Recombinant Mouse ZNRF3 Fc Chimera binds with an apparent Kd < 0.2 nM.
Molecular Mass	45 kDa

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N-terminal Sequence Analysis	Lys53
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE with silver staining.
Reconstitution	Reconstitute at 100 μg/mL in PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Shipping	The product is shipped at ambient temperature.
References	1. de Lau, W. et al. (2014) Genes Dev. 28:305. 2. Xie, Y. et al. (2013) EMBO Rep. 14:1120. 3. Peng, W.C. et al. (2013) PLoS One 8:e83110.

GENE INFORMATION

Gene Name	Znrf3 zinc and ring finger 3 [Mus musculus (house mouse)]
Official Symbol	Znrf3
Synonyms	Znrf3; zinc and ring finger 3; Gm1167; E3 ubiquitin-protein ligase ZNRF3; RING-type E3 ubiquitin transferase ZNRF3; zinc/RING finger protein 3; EC 2.3.2.27

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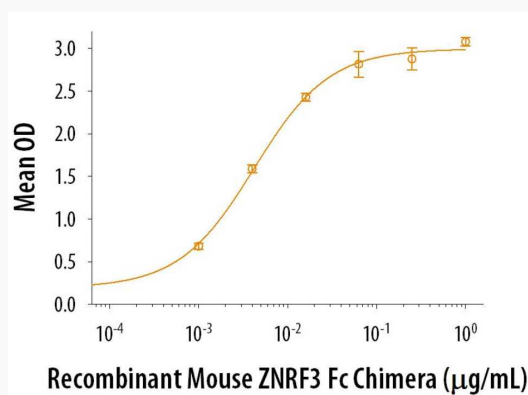
Gene ID 407821

mRNA Refseq NM_001080924

Protein Refseq NP_001074393

UniProt ID Q5SSZ7

Binding Activity



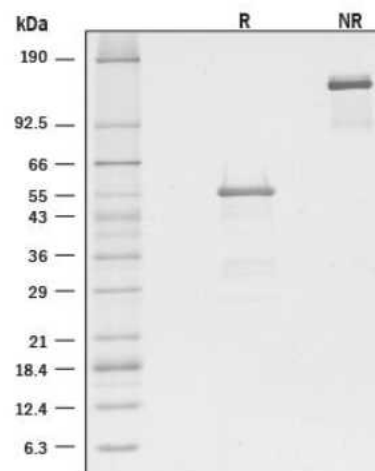
When Recombinant Mouse R-Spondin 3 is coated onto a microplate well at 0.25 µg/mL, Recombinant Mouse ZNRF3 Fc Chimera binds with an apparent $K_d < 0.2$ nM.

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SDS-PAGE



1 µg/lane of Recombinant Mouse ZNRF3 was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by silver staining, showing bands at 54.7 and 138 kDa, respectively.