Active Recombinant Mouse Wnt10a protein, His-GST-tagged

Cat. No. Wnt10a-1487M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Wnt10a protein(108-343 aa), fused with N-terminal GST tag and His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
Form	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
Bio-activity	Wingless Type MMTV Integration Site Family, Member 10A (WNT10A) is a ligand for members of the frizzled family of seven transmembrane receptors. It is involved in the regulation of cell proliferation, differentiation, migration, and apoptosis. Overexpression of WNT10A has been associated with various diseases, including cancer, where it can contribute to tumorigenesis through activation of the Wnt-beta-catenin-TCF signaling pathway. LRP5 and LRP6, as co-receptors of Wnt signal, play a key role in the signal transduction process, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse WNT10A and recombinant rat LRP5. Briefly, WNT10A was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to LRP5-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-WNT10A pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm

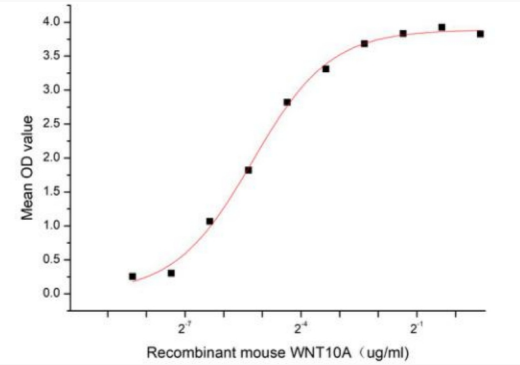
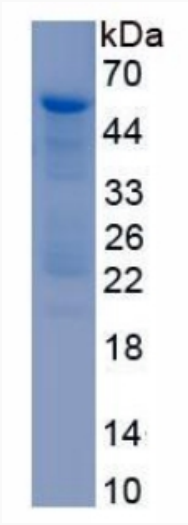
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	immediately. The binding activity of recombinant mouse WNT10A and recombinant rat LRP5 was shown,the EC50 for this effect is 0.026 ug/mL.
Molecular Mass	56.0kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	>80%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 month.
Reconstitution	Reconstitute in ddH2O to a concentration of 0.1-0.5 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Wnt10a wingless related MMTV integration site 10a [Mus musculus]
Official Symbol	Wnt10a
Synonyms	WNT10A; wingless related MMTV integration site 10a; protein Wnt-10a;
Gene ID	22409
mRNA Refseq	NM_009518
Protein Refseq	NP_033544

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Activity	
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