

RP01350LQ

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Recombinant Mouse Dkk-1 Protein

Catalog No.: RP01350LQ

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	13380	O54908

Tags

C-His

Synonyms

DKK1;SK;Dickkopf-1;DKK1;DKK1;SK;DKK1

Background

Members of the dickkopf-related protein family (DKK-1, -2, -3, and -4) are secreted proteins with two cysteine-rich domains separated by a linker region. And DKK1 takes part in embryonic development through its inhibition of the WNT signaling pathway, binds to LRP6 with high affinity and prevents the Frizzled-Wnt-LRP6 complex formation in response to Wnts. DKK1 promotes LRP6 internalization and degradation when it forms a ternary complex with the cell surface receptor Kremen. DKK1 not only functions as a head inducer during development, but also regulates joint remodeling and bone formation, which suggests roles for DKK1 in the pathogenesis of rheumatoid arthritis and multiple myeloma. More recently research reported, DKK1 impacts eye development from a defined developmental time point on, and is critical for lens separation from the surface ectoderm via β -catenin mediated Pdgfr α and E-cadherin expression.

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Supplied as a 0.22 μ M filtered solution in 20mM Tris, 500mM NaCl, 10% glycerol, pH8.0.

Reconstitution

Basic Information

Description

Recombinant Mouse Dkk-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr32-His272) of mouse DKK-1 (Accession #NP_034181.2) fused with a 6xHis tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse DKK-1 at 5 μ g/mL (100 μ L/well) can bind Human LRP-5 with a linear range of 0.001-0.623 μ g/mL.

Storage

This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

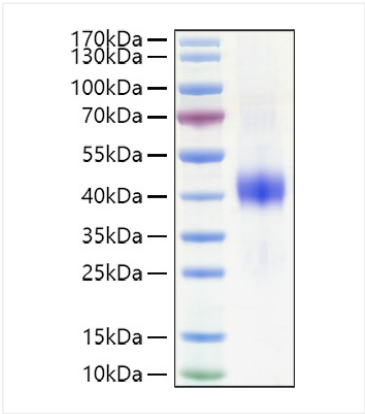
Avoid repeated freeze/thaw cycles.

Contact

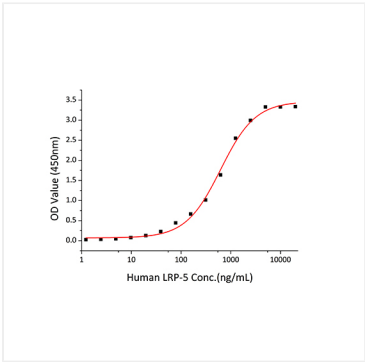


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Validation Data



Recombinant Mouse Dkk-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 40-45kDa.



Immobilized Mouse DKK-1 at 5 µg/mL (100 µL/well) can bind Human LRP-5 with a linear range of 0.001-0.623 µg/mL.