

Recombinant Human DKK1 protein, His-tagged

Cat. No. DKK1-022H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DKK1 (Thr32-His266) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Thr32-His266
Description	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 Pdgfra and E-cadherin expression.
Predicted N Terminal	Thr32
Form	Lyophilized from 0.22

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	µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 25.8 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	DKK1
Official Symbol	DKK1
Synonyms	DKK1; dickkopf 1 homolog (Xenopus laevis); dickkopf (Xenopus laevis) homolog 1; dickkopf-related protein 1; DKK 1; SK; hDkk-1; dickkopf-1 like; dickkopf related protein-1; DKK-1
Gene ID	22943

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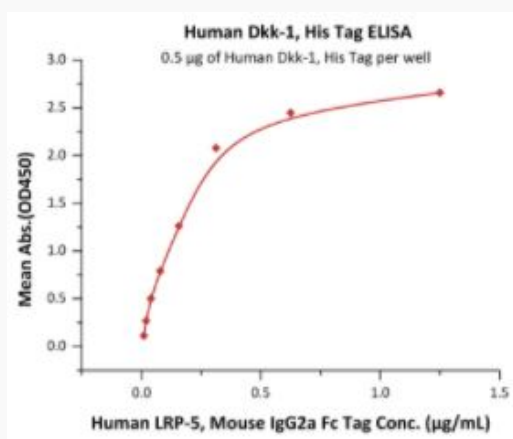
mRNA Refseq [NM_012242](#)

Protein Refseq [NP_036374](#)

MIM [605189](#)

UniProt ID [O94907](#)

Bioactivity-ELISA of DKK1-022H



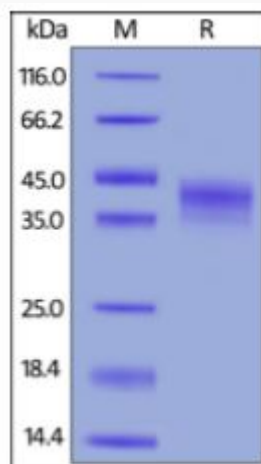
Immobilized Human Dkk-1, His Tag at 5 µg/mL (100 µL/well) can bind Human LRP-5, Mouse IgG2a Fc Tag with a linear range of 0.01-0.156 µg/mL (QC tested).

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SDS-PAGE of DKK1-022H



Human Dkk-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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