

Active Recombinant Mouse Dkk3 Protein

Cat. No. Dkk3-7394M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse DKK-3 protein without tag was expressed in CHO cells.
Species	Mouse
Source	CHO
Description	Antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6. DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero-posterior axial patterning, limb development, somitogenesis and eye formation. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease.
Form	Lyophilized
Bio-activity	Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3 E1 cells. The expected ED50 for this effect is 2.0–4.0 ng/mL.
Molecular Mass	36.3 kDa (329aa)
AA Sequence	APAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMEDTQHKLRSVEEMEAEAA AAKASSEVNLANLPPSYHNETNTDTKVGNNITIHVHREIHKITNNQTGQMVFSETVITS VGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGRMLCTRDSECCGDQLC VWGHCTKMATRGSNGTICDNQRDCQPLCCAFQRGLLPVCTPLPVEGELCHDPA SRLLDLITWELEPDGALDRPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILLPR

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	EVPDEYEVGSGFMEEVRQELEDLERSLTEEMALREPAAAAAALLGGEEI
Purity	> 98 % by SDS-PAGE and HPLC
Stability	Shelf life: one year from despatch.
Storage	Store lyophilized at 2-8 centigrade for 6 months or at -20 centigrade long term. After reconstitution store the antibody undiluted at 2-8 centigrade for one month or (in aliquots) at -20 centigrade long term. Avoid repeated freezing and thawing.
Reconstitution	We recommended a quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/mL. This solution can be diluted into other aqueous buffers and stored at 4 centigrade for one week or at -20 centigrade for future use.

GENE INFORMATION

Gene Name	Dkk3 dickkopf WNT signaling pathway inhibitor 3 [Mus musculus (house mouse)]
Official Symbol	Dkk3
Synonyms	Dkk3; dickkopf WNT signaling pathway inhibitor 3; dkk-3; C87148; mDkk-3; AW061014; dickkopf-related protein 3; dickkopf homolog 3; dickkopf-3
Gene ID	50781
mRNA Refseq	NM_001360257
Protein Refseq	NP_001347186
UniProt ID	Q9QUN9

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