

## Active Recombinant Mouse Dkk3 Protein

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse DKK-3 protein without tag was expressed in CHO cells.
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>Description</b>	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.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	36.3 kDa (329aa)
<b>AA Sequence</b>	<p>APAPTATSAPVKPGPALSYPQEEATLNEMFREVEELMEDTQHKLRSAVEEMEAEAA  AAKASSEVNLANLPPSYHNETNTDTKVGNNTIHVHREIHKITNNQTGQMVFSETVITS  VGDEEGRRSHECIIDEDCGPSMYCQFASFQYTCQPCRGRMLCTR DSECCGDQLC  VWGHCTKMATRGSNGTICDNQRDCQPGLCCAFQRGLLFPVCTPLPVEGELCHDPA  SRLLDLITWELEPDGALDRPCASGLLCQPHSHSLVYVCKPTFVGSRDQDGEILLPR</p>

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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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