

Recombinant Mouse Dickkopf Homolog 1 (*Xenopus laevis*), His-tagged

Cat. No. Dkk1-2114M Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Mouse Dkk1 fused with N-terminal his-tag was expressed in *E. coli*. MW = 35 kDa.

Species

Mouse

Source

E. coli

Description

Dkk-1 (Dickkopf or Dickkopf-1) is a secreted inhibitor of the Wnt/canonical signaling pathway which mediates a variety of cellular processes. Wnt proteins are extracellular signaling molecules that initiate activation of the canonical pathway by binding low-density lipoprotein receptor-related protein 5&6 (LRP5/6) coreceptors, triggering a cascade of events that stabilize beta-catenin. Wnts mediate osteoblast development and cell-to-cell interactions during embryogenesis, and are also responsible for regulating bone mass in adults during normal bone remodeling processes. Wnts are also found to be expressed during the stationary phase of the cell cycle and are thought to control expansion of bone marrow stromal cells preventing overpopulation in marrow.

Purity

> 95% (SDS-PAGE and Western Blot).

Formulation

Liquid. 50 mM Tris pH 8.5, 250 mM NaCl, 2 mM DTT, 1 mM EDTA.

Application

Western blot Control.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Store at -70°C.

GENE INFORMATION

Gene Name [Dkk1 dickkopf homolog 1 \(Xenopus laevis\) \[Mus musculus \]](#)

Synonyms Dkk1; dickkopf homolog 1 (Xenopus laevis); mdkk-1; dickkopf-related protein 1; dkk-1; dickkopf-1; OTTMUSP00000022079

Gene ID [13380](#)

mRNA Refseq [NM_010051](#)

Protein Refseq [NP_034181](#)

UniProt ID [O54908](#)

Chromosome Location 19 C2

Pathway Wnt signaling pathway

Function low-density lipoprotein receptor binding; protein binding

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