Active Recombinant Mouse Dickkopf Homolog 1 (Xenopus laevis)

Cat. No. Dkk1-398M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Dkk1protein was expressed in Chinese Hamster Ovary cell line, CHO-derived. Ser30-His272.
Species	Mouse
Source	CHO
ProteinLength	30-272 a.a.
Description	Dkk1 is the foundingmember of the Dickkopf family of proteins that includes Dkk-1, -2, -3, -4, anda related protein, Soggy. Dkk proteins are secreted proteins that contain twoconserved cysteine-rich domains separated by a linker region. Each domaincontains ten cysteine residues. Mature mouse Dkk1 is a 40 kDa glycosylatedprotein that shares 86%, 96%, 83% and 82% amino acid (aa) sequence identitywith human, rat, rabbit and bovine Dkk1, respectively.
Form	Lyophilizedfrom a 0.2 μm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Ser30 & Thr32
Molecular Weight	26.1 kDa
Activity	Measured by itsability to inhibit Wnt-3a-induced alkaline phosphatase production by MC3T3-E1mouse osteoblastic cells. The ND50 for this effect is typically0.02-0.1

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	μg/mL in the presence of 10 ng/mL of rmWnt-3a.
Endotoxin Level	<1.0 EU per 1 μgof the protein by the LAL method.
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100μg/mL in sterile PBS that containing at least 0.1% human or bovine serumalbumin.
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to-70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Dkk1dickkopf homolog 1 (Xenopus laevis) [Mus musculus]
Official Symbol	Dkk1
Synonyms	Dkk1; dickkopfhomolog 1; mddk-1; OTTMUSP00000022079; dickkopf-related protein 1; dkk-1; dickkopf-1;mCG_6758
Gene ID	13380
mRNA Refseq	NM_010051
Protein Refseq	NP_034181
UniProt ID	Q80UL5
Chromosome	19

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Location	
Pathway	Wnt SignalingPathway; PluriNetWork
Function	Low-density lipoprotein particle binding; receptorantagonist activity; protein binding

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