

Active Recombinant Mouse Dkk1 Protein (243 aa)

Cat. No. Dkk1-293D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Dickkopf-related protein 1 produced in CHO cells is a polypeptide chain containing 243 amino acids. A fully biologically active molecule, rmDKK-1 has a molecular mass of 19~20 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Mouse
Source	CHO
ProteinLength	243
Description	Dickkopf related protein 1 (DKK1) is a chemokine that belongs to the DKK protein family, which also includes DKK-2, DKK-3 and DKK-4. DKK-1 was originally identified as a Xenopus head forming molecule that behaves as an antagonist for Wnt signaling. It is one of the most up-regulated genes during androgen-potentiated balding, with DKK-1 messenger RNA up-regulated a few hours after DHT treatment of hair follicles at the dermal papilla in vitro. Neutralizing bodies against DKK-1 reverses DHT effects on outer root sheath keratinocytes. DKK-1 expression is attenuated by L-threonate, a metabolite of ascorbate in vitro. DKK-1 promotes LRP6 internalization and degradation as it forms a ternary complex with the cell surface receptor Kremen. DKK-1 not only functions in head formation during development, but also regulates joint remodeling and bone formation indicating its potential role in the pathogenesis of rheumatoid arthritis and multiple myeloma.

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Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 6 µg/mL, measured in stimulation of alkaline phosphatase activity using CCI-226 cells.
Molecular Mass	19-20 kDa, observed by reducing SDS-PAGE.
AA Sequence	SATLNSVLINSNAIKNLPPPLGGAGGQPGSAVSVAPGVLYEGGNKYQTLDNYPYP CAEDEECGSDEYCSSPSRGAAGVGGVQICLACRKRRCMRHAMCCPGNYCKNG ICMPSDHSHFPRGEIEESIIENLGNDHNAAAGDGYPRRTTLTSKIYHTKGQEGSVCLR SSDCAAGLCCARHFWSKICKPVLKEGQVCTKHKRKGSHGLEIFQRCYCGEGLACRI QKDHHQASNSSRLHTCQRH
Endotoxin	< 0.2 EU/µg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Mouse Dickkopf-related protein 1 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Mouse Dickkopf-related protein 1 should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	Dkk1 dickkopf homolog 1 (Xenopus laevis) [Mus musculus]
Official Symbol	Dkk1

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Synonyms	DKK1; dickkopf homolog 1 (<i>Xenopus laevis</i>); dickkopf-related protein 1; dkk-1; dickkopf-1; mdck-1;
Gene ID	13380
mRNA Refseq	NM_010051
Protein Refseq	NP_034181
UniProt ID	O54908

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