

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

Cat. No. DKK1-347H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Dkk-1 protein, fused to His-tag at C-terminus, was expressed in Hi-5 cell using baculovirus expression system and purified by using conventional chromatography (253 aa, 27.8 kDa).
Species	Human
Source	Hi-5 Insect Cells
ProteinLength	32-266 aa
Description	Dickkopf-related protein 1, also known as Dkk-1, is a member of the Dkk protein family including Dkk-1, 2, 3 and -4. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the WNT signaling pathway. Elevated level of Dkk-1 in bone marrow plasma and peripheral blood is associated with the presence of osteolytic bone lesions in patients with multiple myeloma.
Formulation	Liquid. In PBS (pH 7.4) containing 10% glycerol.
Molecular Weight	27.8 kDa (253 aa).
Purity	> 85% by SDS – PAGE.
Concentration	0.25 mg/ml (determined by Bradford assay).

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Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).
Sequence	ADPTLNSVLN SNAIKNLPPP LGGAAGHPGS AVSAAPGILY PGGNKYQTID NYQPYPCAED EECGTDEYCA SPTRGGDAGV QICLACRKRR KRCMRHAMCC PGNKYCKNGIC VSSDQNHFRG EIEETITESF GNDHSTLDGY SRRTTLSSKM YHTKGQEGSV CLRSSDCASG LCCARHFWSK ICKPVLKEGQ VCTKHRRKGS HGLEIFQRCY CGEGLScriQ KDHHQASNSS RLHTCQRHSG RLVPRGSHHH HHH
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	DKK1
Synonyms	DKK1; dickkopf homolog 1 (<i>Xenopus laevis</i>); SK; DKK-1; Dickkopf-1; Dkk-1; hDkk-1; OTTHUMP00000019617; dickkopf homolog 1; dickkopf (<i>Xenopus laevis</i>) homolog 1; dickkopf-1 like; dickkopf related protein-1; DKK1 dickkopf homolog 1 (<i>Xenopus laevis</i>).
Gene ID	22943
mRNA Refseq	NM_012242.2
Protein Refseq	NP_036374.1
MIM	605189
UniProt ID	O94907
Chromosome	10q11.2

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Location

Pathway

Wnt signaling pathway.

Function

growth factor activity; low-density lipoprotein receptor binding; protein binding; signal transducer activity.

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