

## Active GMP Recombinant Human DKK1 Protein

Cat. No. DKK1-01HG Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human DKK1 protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	<p>Dickkopf-associated protein 1 (Dkk-1) is the initial member of the Dickkopf protein family, which includes Dkk-1, Dkk-2, Dkk-3, Dkk-4 and the related protein Soggy. dkk protein is a secreted protein with two conserved cysteine-rich structural domains. Each structural domain contains 10 cysteine residues. Human mature Dkk-1 is a glycosylated protein with a molecular weight of 40 KD. Dkk-1 acts as an antagonist of Wnt signaling, and Dkk-1 is expressed throughout development and antagonizes Wnt-7a during limb development. The balance between Wnt signaling and Dkk-1 inhibition is critical for bone formation and internal environmental stability. Insufficient or excessive Dkk-1 activity in bone leads to increased or decreased BMD, respectively. In adults, Dkk-1 is expressed in osteoblasts, osteocytes and neurons. Brain ischemia induces Dkk-1 expression, leading to neuronal death.</p>
<b>Form</b>	Lyophilized powder
<b>Endotoxin</b>	<20 EU/mg
<b>Bio-activity</b>	>5.0 x 10 <sup>4</sup> IU/mg

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<b>Purity</b>	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
<b>Storage Buffer</b>	10mM Phosphate-Buffered Saline (pH 7.2)
<b>Storage</b>	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
<b>Sterility</b>	Sterility
<b>Instructions</b>	It is recommended that lyophilized GMP rhDKK1 be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

## GENE INFORMATION

<b>Gene Name</b>	DKK1 dickkopf WNT signaling pathway inhibitor 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	DKK1
<b>Synonyms</b>	SK; DKK-1
<b>Gene ID</b>	22943
<b>mRNA Refseq</b>	NM_012242.4
<b>Protein Refseq</b>	NP_036374.1
<b>UniProt ID</b>	O94907
<b>MIM</b>	605189

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