Active GMP Recombinant Human DKK1 Protein

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

SPECIFICATION

Product Overview	Recombinant human DKK1 protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
Description	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.
Form	Lyophilized powder
Endotoxin	<20 EU/mg
Bio-activity	>5.0 x 10^4 IU/mg

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Purity	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)
Storage	Stable storage at 4℃ for 7-10 days; for long-term storage, please store at -20℃ after dispensing.
Sterility	Sterility
Instructions	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

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

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