

## Active Recombinant Human DKK1 Protein

**Cat. No.** DKK1-430D    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human DKK1 Protein without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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. DKK1 promotes LRP6 internalization and degradation as it forms a ternary complex with the cell surface receptor Kremen. DKK1 not only functions as a head inducer during development, but also regulates joint remodeling and bone formation, which indicate its role in the pathogenesis of rheumatoid arthritis and multiple myeloma.</p>
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 6 µg/mL, measured in stimulation of alkaline phosphatase activity using CCI-226 cells. Up to 180% stimulation of alkaline phosphatase activity was observed at 10.0 µg/mL.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	17-22 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	TLNSVLNSNAIKNLPPPLGGAAGHPGSAVSAAPGILYPGGNKYQTIDNYQPYPCAED EECGTDEYCASPTRGGDAGVQICLACRKRRCMRHAMCCPGNYCKNGICVSSD QNHFRGEIEETITESFGNDHSTLDGYSRRTLSSKMYHTKGQEGSVCLRSSDCASG LCCARHFWSKICKPVLKEGQVCTKHRRKGGSHGLEIFQRRCYCGEGLSCRIQKDHQA SNSSRLHTCQRH
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Storage</b>	Lyophilized recombinant human DKK1 (rhDKK1) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhDKK1 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	DKK1 dickkopf 1 homolog ( <i>Xenopus laevis</i> ) [ <i>Homo sapiens</i> ]
<b>Official Symbol</b>	DKK1
<b>Synonyms</b>	DKK1; dickkopf 1 homolog ( <i>Xenopus laevis</i> ); dickkopf ( <i>Xenopus laevis</i> ) homolog 1; dickkopf-related protein 1; DKK 1; SK; hDkk-1; dickkopf-1 like; dickkopf related protein-1; DKK-1;
<b>Gene ID</b>	22943

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mRNA Refseq	NM_012242
Protein Refseq	NP_036374
MIM	605189
UniProt ID	O94907

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