

# Recombinant human DKK1 protein

Catalog Number: ATGP2070

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

32-266aa

### UniProt No.

O94907

### NCBI Accession No.

NP\_036374

### Alternative Names

Dickkopf WNT signaling pathway inhibitor 1, Dickkopf-related protein 1, Dickkopf-1, Dkk-1, SK

## PRODUCT SPECIFICATION

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### Molecular Weight

28.2 kDa (258aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Dickkopf-related protein 1, also known as DKK1, antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6. DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero-posterior axial patterning, limb development, somitogenesis and eye formation. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease. Recombinant human DKK1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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### Amino acid Sequence

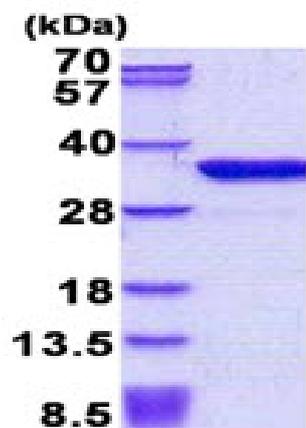
MGSSHHHHHH SSGLVPRGSH MGSTLNSVLN SNAIKNLPPP LGGAAGHPGS AVSAAPGILY PGGNKYQTID NYQPYPCAED  
EECGTDEYCA SPTRGGDAGV QICLACRKRK RRCMRHAMCC PGN YCKNGIC VSSDQNHFRG EIETITESF GNDHSTLDGY  
SRRTTLSSKM YHTKGQEGSV CLRSSDCASG LCCARHFW SK ICKPVLKEGQ VCTKHRRKGS HGLEIFQRCY CGEGLScriQ  
KDHHQASNSS RLHTCQRH

### General References

Ahn V.E., et al. (2011) Dev. Cell. 21:862-873  
Haniu M., et al. (2011) Protein Sci. 20:1802-1813

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)