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Recombinant human DKK1 protein

Catalog Number: ATGP2070

PRODUCT INFORMATION

Expression system

E.coli

Domain

32-266aa

UniProt No.

094907

NCBI Accession No.

NP 036374

Alternative Names

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

PRODUCT SPECIFICATION

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

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

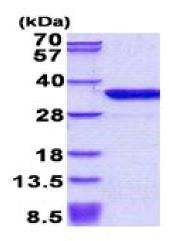
MGSSHHHHHH SSGLVPRGSH MGSTLNSVLN SNAIKNLPPP LGGAAGHPGS AVSAAPGILY PGGNKYQTID NYQPYPCAED EECGTDEYCA SPTRGGDAGV QICLACRKRR KRCMRHAMCC PGNYCKNGIC VSSDQNHFRG EIEETITESF GNDHSTLDGY SRRTTLSSKM YHTKGQEGSV CLRSSDCASG LCCARHFWSK ICKPVLKEGQ VCTKHRRKGS HGLEIFQRCY CGEGLSCRIQ KDHHQASNSS RLHTCQRH

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



15% SDS-PAGE (3ug)

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

