Recombinant human DKK1 protein

Catalog Number: ATGP0269

PRODUCT INFORMATION

Expression system
Baculovirus

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

Molecular Weight
27.8 kDa (253aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 50% glycerol, 2mM DTT, 2mM EDTA, 0.1mM PMSF

Purity
> 85% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

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 Dkk-1, is a member of the Dkk protein family including Dkk-1, 2, 3 and -4. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the WNT signaling pathway. Elevated level of Dkk-1 in bone marrow plasma and peripheral blood is associated with the presence of osteolytic bone lesions in patients with multiple myeloma. Recombinant human

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Dkk-1 protein, fused to His-tag at C-terminus, was expressed ininsect cell using baculovirus expression system and purified by using conventional chromatography.

Amino acid Sequence

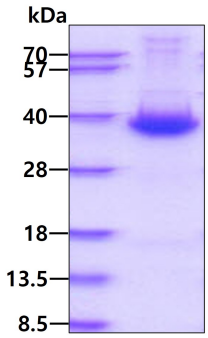
<ADP>TLNSVLN SNAIKNLPPP LGGAAGHPGS AVSAAPGILY PGGNKYQTID NYQPYPCAED EECGTDEYCA SPTRGGDAGV QICLACRKRR KRCMRHAMCC PGNYCKNGIC VSSDQNHFRG EIEETITESF GNDHSTLDGY SRRTTLSSKM YHTKGQEGSV CLRSSDCASG LCCARHFWSK ICKPVLKEGQ VCTKHRRKGS HGLEIFQRCY CGEGLSCRIQ KDHHQASNSS RLHTCQRHSG RLVPRGS<HHH HHH>

General References

Krupnik, V.E. et al. (1999) Gene 238:301-13.
Nusse, R. et al. (2001) Nature 411:255-6.
Mao, J. et al. (2001) Mol. Cell 7:801-9.

DATA

SDS-PAGE



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