Recombinant human DKK3 protein

Catalog Number: ATGP1666

PRODUCT INFORMATION

Expression system
E.coli

Domain
22-350aa

UniProt No.
Q9UBP4

NCBI Accession No.
NP_001018067

Alternative Names
Dickkopf WNT signaling pathway inhibitor 3, Dickkopf-related protein 3, Dickkopf-3, Dkk-3, REIC, RIG, CRRL

PRODUCT SPECIFICATION

Molecular Weight
38.8 kDa (353aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1M urea,10% glycerol, 1mM DTT

Purity
> 85% 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 3, also known as DKK3, 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. DKK3 is a 350 amino acid secreted glycoprotein that is composed of an N-terminal signal peptide and two conserved cysteine-rich domains, which are separated by a 12 amino acid linker region. The expression of this gene is decreased in a variety of cancer cell lines and it may function as a tumor suppressor gene. Recombinant human DKK3 protein, fused to His-tag at N-terminus, was expressed in E.

coli.

Amino acid Sequence

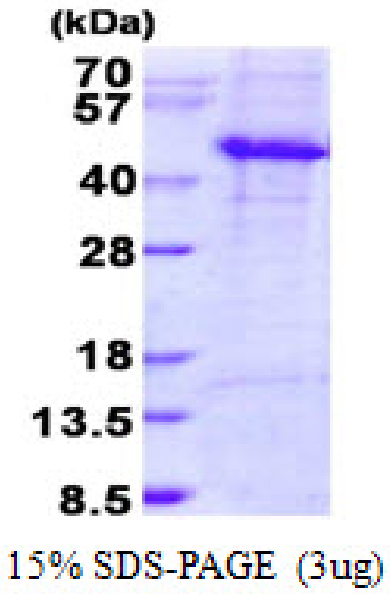
MGSSHHHYHH SSGLVPRGSH MGSMAPAPTA TSAPVKPGPA LSYPQEEATL NEMFREVEEL MEDTQHKLRS AVEEMEAEEA AAKASSEVNL ANLPPSYHNE TNTDTKVGNN TIHVHREIHK ITNNQTGQMV FSETVITSVG DEEGRRSHEC IIDEDCGPSM YCQFASFQYT CQPCRGQRML CTRDSECCGD QLCVWGHCTK MATRGSNGTI CDNQRDCQPG LCCAFQRGLL FPVCTPLPVE GELCHDPASR LLDLITWELE PDGALDRCPC ASGLLCQPHS HSLVYVCKPT FVGSRDQDGE ILLPREVPDE YEVGSFMEEV RQELEDLERS LTEEMALREP AAAAAALLGG EEI

General References

Cadigan K M., et al. (1997) Genes Dev. 11:3286-3305.
Gilnka A., et al. (1998) Nature. 391:357-362.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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