

Recombinant mouse DKK1 protein

Catalog Number: ATGP4071

PRODUCT INFORMATION

Expression system

HEK293

Domain

32-272aa

UniProt No.

O54908

NCBI Accession No.

NP_034181.2

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

26.9kDa (247aa)

Concentration

0.25mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid in. 50mM MES buffer (pH 6.5) containing 30% glycerol

Purity

> 95% 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

Dkk-1, also known as Dickkopf-related protein 1, is a member of the Dkk protein family. It is a secreted protein with two cysteine rich regions and is involved in embryonic development through its inhibition of the WNT signaling pathway. Because of its antagonistic effects on the Wnt signaling pathway, it is believed that Dkk-1 is a common marker for neuronal death in neurodegenerative diseases like Alzheimer's. Elevated level of Dkk-1 in

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bone marrow plasma and peripheral blood is associated with the presence of osteolytic bone lesions in patients with multiple myeloma. Recombinant mouse Dkk-1, fused to His-tag at C-terminus, was expressed in HEK293 and purified by using conventional chromatography techniques.

Amino acid Sequence

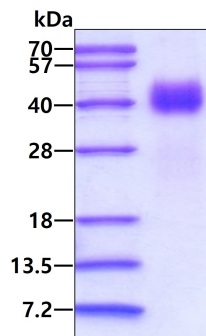
TLNSVLINSN AIKNLPPPLG GAGGQPGSAV SVAPGVLYEG GNKYQTLDNY QPYPCAEDEE CGSDEYCSSP SRGAAGVGGV
QICLACRKRR KRCMRHAMCC PGNYCKNGIC MPSDHSFPR GEIEESIEN LGNDHNAAAG DGYPRRTTLT SKIYHTKGQE
GSVCLRSSDC AAGLCCARHF WSKICKPVLK EGQVCTKHKR KGSHGLEIFQ RCYCGEGLAC RIQKDHHQAS NSSRLHTCQR
<HHHHHHH>

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