Rhesus DKK-1 / Dkk1 Protein (256 Asn/Gln, Fc Tag)

Catalog Number: **11089-K05H**

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Biological Solution Specialist

General Information

Gene Name Synonym:

DKK-1; SK; mdkk-1

Protein Construction:

A DNA sequence encoding the rhesus DKK1 (XP_001098844.1) precursor (Met 1-His 266) (256Asn/Gln) was fused with the Fc region of mouse IgG1 at the C-terminus via a peptide linker.

Source: Rhesus

Expression Host: Human Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Thr 32

Molecular Mass:

The recombinant rhesus DKK1/mFc chimera is a disulfide-linked homodimmer. The reduced monomer comprises 479 amino acids and has a predicted molecular mass of 53.5 kDa. As a result of glycosylation, the apparent molecular mass of rhesus DKK1/mFc monomer is approximately 60-70 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

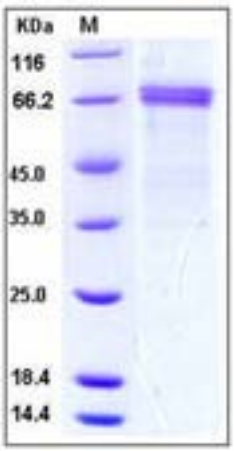
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Dickkopf (DKK) family proteins, consisting of DKK-1, DKK-2, DKK-3 and DKK-4, function as secreted Wnt antagonists by inhibiting Wnt coreceptors LRP5/6. DKK-1, DKK-2, and DKK-4 also bind cell surface Kremen-1 or Kremen-2 and promote the internalization of LRP5/6. Dickkopf related protein 1 (DKK-1) was initially identified as an inducer of head formation in Xenopus embryos. DKK-1 protein modulates Wnt signaling pathway during embryonic development. Increased levels of DKK-1 are found in the majority of lung cancers, esophageal squamous cell carcinomas, and hormone-resistant breast cancers, while DKK-1 expression is decreased in malignant melanoma and colorectal cancers.

References

1. Horwitz EM. (2004) Dkk-1-mediated expansion of adult stem cells. Trends Biotechnol. 22(8): 386-8.
2. Jiang T, et al. (2009) Clinical significance of serum DKK-1 in patients with gynecological cancer. Int J Gynecol Cancer. 19(7): 1177-81.