

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

Catalog Number: 11089-K08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

DKK1

### Protein Construction:

A DNA sequence encoding the rhesus DKK1 (XP\_001098844.1) precursor (Met 1-His 266) (256 Asn / Gln) was expressed, fused with a C-terminal polyhistidine tag.

**Source:** Rhesus

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 97 % as determined by SDS-PAGE

### Bio Activity:

Measured by its ability to inhibit Wnt3a-induced alkaline phosphatase production by C3H10T1/2 2A6 mouse embryonal fibroblast cells. The  $ED_{50}$  for this effect is typically 0.5-3  $\mu$ g/ml in the presence of 10 ng/mL of Wnt3a.

### Endotoxin:

< 1.0 EU per  $\mu$ g of the protein as determined by the LAL method

### Stability:

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

**Predicted N terminal:** Thr 32

### Molecular Mass:

The recombinant rhesus DKK1 comprises 246 amino acids with a predicted molecular mass of 27.2 kDa. As a result of glycosylation, the apparent molecular mass of rhesus DKK1 is approximately 38-43 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:

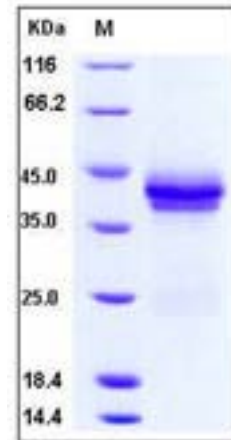
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

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.

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