

Catalog Number: Eg2606

Basic Information**Species:**
Rat**Purity:**
>90 %, SDS-PAGE**Tag:**
rFc Tag**Technical Specifications****Purity:**

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Rat DKK1 protein Thr32-His270 (Accession# A6I0Z0) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

293897

Accession:

A6I0Z0

Predicted Molecular Mass:

52.0 kDa

SDS-PAGE:

58-70 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Dickkopf-1 (DKK1) acts as a natural inhibitor of Wnt/β-catenin pathway, directly binds to the LRP5/6 receptor and Kremen-1/2, leading to internalization of the receptor complex and dampening of Wnt/β-catenin signaling. Dkk1 is abnormally expressed in tumor cells, and abnormal expression of Dkk1 can inhibit cell proliferation or induce apoptosis through pro-apoptotic factors. In vivo, knocking down of DKK1 in the local site of femoral heads in AONFH rats could result in enhanced bone formation and even restoring the blood supply of the femoral heads.

References

1. D'Amico L, et al. (2016). J Exp Med. May 2;213(5):827-840.
2. Chen J, et al. (2021). Am J Transl Res. Apr 15;13(4):2320-2330.
3. Zhu G, et al. (2021). Cancer Manag Res. Jan 25;13:659-675.

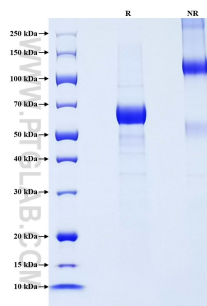
Synonyms

Dickkopf WNT signaling pathway inhibitor 1, Dickkopf-like protein 1, DKK1

For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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Selected Validation Data



Purity of Recombinant Rat Dkk1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.