

DKK-3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75287
Synonyms:	Dickkopf-related protein 3; Dickkopf-3; Dkk-3; mDkk-3
Species:	Mouse
Source:	HEK293
Accession:	Q9QUN9 (M1-I349)
Gene ID:	50781
Molecular Weight:	Approximately 65 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The DKK-3 protein is involved in antagonizing canonical Wnt signaling by inhibiting the interaction between LRP5/6 and Wnt. It achieves this through the formation of a ternary complex with the transmembrane protein KREMEN, which facilitates the internalization of LRP5/6. DKKs, including DKK-3, are crucial in vertebrate development as they locally inhibit Wnt-regulated processes such as antero-posterior axial patterning, limb development, somitogenesis, and eye formation. In adult organisms, DKKs are implicated in bone formation, bone diseases, cancer, and Alzheimer's disease. Additionally, DKK-3 interacts with LRP5 and LRP6 proteins. It is important to note that DKK-3 does not possess carboxypeptidase activity or dipeptidyl-peptidase IV type activity.
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Caution: Product has not been fully validated for medical applications. For research use only.

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