

Mouse DKK1 Protein

Cat. No. DKK-MM101



Description

Source	Recombinant Mouse DKK1 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Thr32-His272.
Accession	O54908
Molecular Weight	The protein has a predicted MW of 27.76 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 90% as determined by HPLC

Formulation and Storage

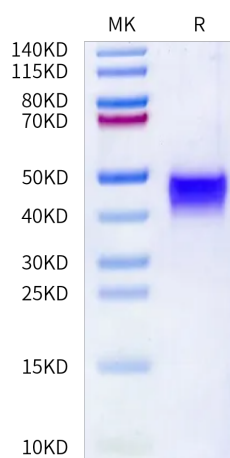
Formulation	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Dickkopf related protein 1 (Dkk-1) is the founding member of the Dickkopf family of proteins that includes Dkk-1, -2, -3, -4, and a related protein, Soggy. Dkk proteins are secreted proteins that contain two conserved cysteine-rich domains separated by a linker region. Dkk antagonizes canonical Wnt signaling by inhibiting LRP5/6 interaction with Wnt and by forming a ternary complex with the transmembrane protein KREMEN that promotes internalization of LRP5/6. DKKs play an important role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero-posterior axial patterning, limb development, somitogenesis and eye formation.

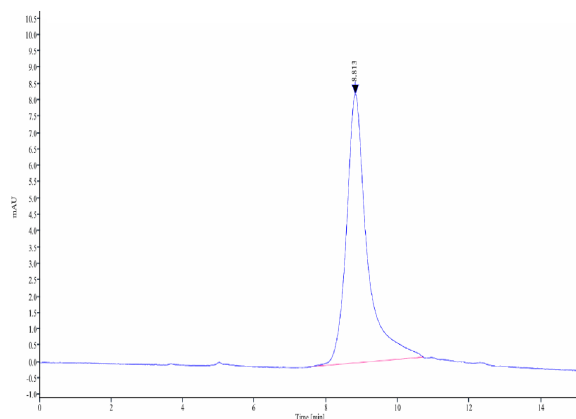
Assay Data

Bis-Tris PAGE



Mouse DKK1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

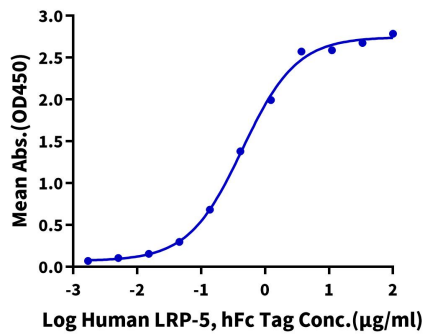


The purity of Mouse DKK1 is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

Mouse DKK1, His Tag ELISA
0.2µg Mouse DKK1, His Tag Per Well



Immobilized Mouse DKK1, His Tag at 2µg/ml(100µl/well) on the plate. Dose response curve for Human LRP-5, hFc Tag with the EC50 of 0.44µg/ml determined by ELISA.