

Product Data Sheet

DKK-3 Protein, Human (R335G, HEK293, His)

Cat. No.:	HY-P78681
Synonyms:	DKK3; REIC; RIG
Species:	Human
Source:	HEK293
Accession:	Q9UBP4-1 (A22-I350, R335G)
Gene ID:	27122
Molecular Weight:	50-66 kDa

PROPERTIES

AA Sequence	A P A P T A T S A P Q H K L R S A V E E T K V G N N T I H V R R S H E C I I D E S E C C G D O L C V W G H C T K M A T R	Q E E A T L N E M F S S E V N L A N L P Q T G Q M V F S E T A S F Q Y T C Q P C G S N G T L C D N O	R E V E E L M E D T P S Y H N E T N T D V I T S V G D E E G R G Q R M L C T R D R D C O P G L C C A	
	FQRGLLFPVCTPLPVEGELCLDRCPCASGLLCQPHSHSLVREVPDEYEVGSFMEEVRQELAALLGGEEI	H D P A S R L L D L Y V C K P T F V G S E D L E R S L T E E	I T W E L E P D G A R D Q D G E I L L P M A L G E P A A A A	
Biological Activity	Measured by its ability to inhibit the proliferation of Hela human cervical carcinoma cell. The ED ₅₀ for this effect is 3.621 μ g/mL, corresponding to a specific activity is 276.167 units/mg.			
Appearance	Lyophilized powder.			
Formulation	Lyophilized a 0.22 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.			
Endotoxin Level	<1 EU/ μ g, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).			
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 elsev	vhere.		

DESCRIPTION

Background

The DKK-3 protein functions as an antagonist of canonical Wnt signaling by impeding the interaction between LRP5/6 and Wnt and forming a ternary complex with the transmembrane protein KREMEN, facilitating the internalization of LRP5/6. Within vertebrate development, DKKs, including DKK-3, play a crucial role by locally inhibiting Wnt-regulated processes such as antero-posterior axial patterning, limb development, somitogenesis, and eye formation. In the adult, DKKs are implicated in diverse physiological and pathological conditions, encompassing bone formation, bone disease, cancer, and Alzheimer's disease (By similarity). Notably, DKK-3's interaction with LRP5 and LRP6 highlights its regulatory involvement in inhibiting Wnt signaling and its potential impact on various cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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