

## DKK-1 Protein, Rat (HEK293, His)

<b>Cat. No.:</b>	HY-P73305
<b>Synonyms:</b>	dickkopf WNT signaling pathway inhibitor 1; Dickkopf-1; dickkopf-related protein 1; Dkk1; Dkk-1; hDkk-1
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	NP_001099820.1 (T32-H270)
<b>Gene ID:</b>	293897
<b>Molecular Weight:</b>	Approximately 27.4 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>MTVVRAVA AV RFLVVLSTMA LCSLPPLGVS ATLN SVLINS</p> <p>NAIKNLPPPL GGAGGQPGSA VSVAPGVLYE GGNKYQTLDN</p> <p>YQPYPCA EDE ECGTDEYCSS PSRGAAGVGG VQICLACRKR</p> <p>RKRRCMRHAMC CPGN YCKNGI CMPSD HSHLP RGEIEEG IIE</p> <p>NLGNDHGAGD GYPRRTT LTS KIYHTKGQEG SVCLRSSDCA</p> <p>TGLCCARHFW SKICKPVLKE GQVCTKHRRK GSHGLEIFQR</p> <p>CYCGEGLACR IQKDHHQTSN SSR LH TCQRH</p>
<b>Biological Activity</b>	Measured by its ability to inhibit Wnt3a induced alkaline phosphatase production by C3H10 T1/2 cells and the ED <sub>50</sub> for this effect is typically 0.2 µg/mL.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A.
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	DKK-1 Protein is predicted to play a crucial role in co-receptor binding, low-density lipoprotein particle receptor binding, and receptor antagonist activity. It is involved in the negative regulation of ossification and the positive regulation of neuron death, and its primary localization is in the extracellular space. This protein is implicated in anodontia, and its biased
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expression pattern is evident, with notable levels observed in the kidney (RPKM 4.7), brain (RPKM 0.6), and two other tissues. DKK-1's involvement in the WNT signaling pathway and its impact on visual epilepsy make it a significant factor in both developmental and neurological contexts.

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

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