
Product Data Sheet

Product Name: DKK2 Human
 Cat. No.: GP23323
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Dickkopf 2 homolog (Xenopus laevis); dickkopf related protein-2; hDkk-2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMKLNSIK SSLGGETPGQ AANRSAGMYQ GLAFGGSKKG KNLGQAYPCS SDKECEVGRY CHSPHQGSSA CMVCRRKKKR CHRDGMCCPS TRCNGGICIP VTESILTPHI PALDGTRHRD RNHGHYSNHD LGWQNLGRPH TKMSHIKGHE GDPCLRSSDC IEGFCCARHF WTKICKPVLH QGEVCTKQRK KGSHGLEIFQ RCDCAKGLSC KVKWDATYSS KARLHVCQKI.		
Formulation	The DKK2 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Dickkopf-related protein 2 (DKK2) is a member of the dickkopf family, which has a vital role in vertebrate development, where they locally inhibit Wnt regulated processes such as antero-posterior axial patterning, limb development, somitogenesis and eye formation. In adults, Dkks are involved in bone formation and bone disease, cancer and Alzheimer disease. DKK2 contains 2 cysteine rich regions and is implicated in embryonic development through its interactions with the Wnt signaling pathway. DKK2 may function as either an agonist or antagonist of Wnt/beta-catenin signaling, depending on the cellular environment and the presence of the co-factor kremen 2. DKK2 protein activity is also controlled by binding to the Wnt co-receptor LRP6 (LDL-receptor related protein 6).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

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Background

DKK2 Human Recombinant produced in E. coli is a single polypeptide chain containing 250 amino acids (34-259) and having a molecular mass of 27.6 kDa. DKK2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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