

Recombinant human Dkk3 protein ab186078

Description

Product name	Recombinant human Dkk3 protein	
Biological activity	Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3 E1 cells. The expected ED ₅₀ for this effect is 2.0–4.0 ng/ml.	
Purity	> 98 % SDS-PAGE. Purity is greater than 98% by SDS-PAGE gel and HPLC analyses.	
Expression system	CHO cells	
Accession	<u>Q9UBP4</u>	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	APAPTATSAP VKPGPALSYP QEEATLNEMF REVEELMEDT QHKLRSAVEE MEAEAAA SSEVNLANLP PSYHNETNTD TKVGNNTIHV HREIHKITNN QTGQMVFSET VITSVGDEEG RRSHECIIDE DCGPSMYCQF ASFQYTCQPC RGQRMLCTRD SECCGDQLCV WGHCTKMATR GSNGTICDNQ RDCQGPLCCA FQRGLLFPVC TPLPVEGELC HDPASRLDL ITWELEPDGA LDRPCASGL LCQPHSHSLV YVCKPTFVGS RDQDGEILLP REVPEYEVG SFMEEVRQEL EDLERSLTEE MALREPAAAA AALLGEEI	
Predicted molecular weight	36 kDa	
Amino acids	22 to 350	

Specifications

Our **Abpromise guarantee** covers the use of **ab186078** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
	HPLC
	Functional Studies

Form	Lyophilized
Additional notes	Due to glycosylation, ab186078 migrates at an apparent molecular weight of approximately 39-49 kDa by SDS-PAGE analysis under non-reducing conditions.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	For lot specific reconstitution information please contact our Scientific Support Team.

General Info

Function	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. In the adult, Dkks are implicated in bone formation and bone disease, cancer and Alzheimer disease.
Tissue specificity	Highest expression in heart, brain, and spinal cord.
Sequence similarities	Belongs to the dickkopf family.
Domain	The C-terminal cysteine-rich domain mediates interaction with LRP5 and LRP6.
Post-translational modifications	N- and O-glycosylated.
Cellular localization	Secreted.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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