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# CHASELECTION

## Recombinant Human Dkk1, His Tag

货号(Catalog Number): CY100FXXXX(L)

#### 别名(synonym):

Dickkopf-1; dickkopf-related protein 1; Dkk1; Dkk-1; hDkk-1; SKdickkopf-1 like

**来源(Source):** Human embryonic kidney cell, HEK293-derived human Dkk1 protein

蛋白结构 (Structure): His Tag

基因 ID: 094907

#### 氨基酸序列:

Met 2-His 266

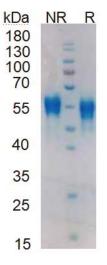
#### 分子量大小(MW):

26.6 kDa

## 纯度(Purity):

>95%, determined by SDS-PAGE

### SDS-PAGE



2 ug/lane protein was resolved with SDS-PAGE under

non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

## 内毒素含量(Endotoxin):

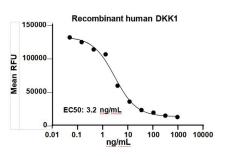
<0.010 EU per 1 ug of the protein by the LAL method

### 版本号: IN-PA-150-00

制剂(Formulation):

Solution protein.Dissolved in sterile PBS buffer.This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

## 活性检测(Biological Activity):



Measured by its ability to inhibit Wnt induced TCF reporter activity in HEK293 human embryonic kidney cells.

#### 储存与运输(Storage):

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70  $^{\circ}$ C as supplied.

## 产品背景介绍(Production)

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. Each domain containsten cysteine residues. Mature human Dkk-1 is a 40 kDa glycosylated protein that shares 86%, 87%, 90% and 91% aa sequence identity with mouse, rat, rabbit and bovine Dkk-1, respectively. It also shares 42% and 36% aa identity with human Dkk-2 and Dkk-4, respectively. Dkk-1 and Dkk-4 are well documented antagonists of the canonical Wnt signaling pathway. This pathway is activated by Wnt engagement of a receptor complex composed of the Frizzled proteins and one of two low-density lipoprotein receptor-related proteins, LRP5 or LRP6. Dkk-1 antagonizes Wnt by forming



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ternary complexes of LRP5/6 with Kremen1 or Kremen2. Dkk-1/LRP6/Krm2 complex internalization has been shown to down-regulate Wnt signaling.Dkk-1 is expressed throughout development and antagonizes Wnt-7a during limb development. Other sites of expression include developing neurons, hair follicles and the retina of the eye. The balance between Wnt signaling and Dkk-1 inhibition is critical for bone formation and homeostasis. Insufficient or excess Dkk-1 activity in bone results in increased or decreased bone density, respectively. In adults, Dkk-1 is expressed in osteoblasts and osteocytes, and neurons. Cerebral ischemia induces Dkk-1 expression, which contributes to neuronal cell death.

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