

DKK1, 32-266aa, Human His tag, E.coli

Cat.NO.: TP01885

3th Edition

Synonyms: Dickkopf-related protein 1 , DKK-1, SK

Description: Dickkopf-related protein 1, also known as DKK1, 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. Recombinant human DKK1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Molecular Weight: 28.2 kDa (258aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSTLNSVLNSNAIKNLPPPLGGAAGHPGSAVSAAPGILYPGGNKYQTIDNYQPY
PCAEDEECGTDEYCASPTRGGDAGVQICLACRKRRCMRHAMCCPGNYCKNGICVSSDQNHFRGEIEETITESF
GNDHSTLDGYSRRTTLSSKMYHTKGQEGSVCLRSSDCASGLCCARHFWSKICKPVLKEGQVCTKHRRKGSHGLEI
FQRCYCGEGLSCRIQKDHQASNSSRLHTCQRH

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.