Data Sheet (Cat.No.TMPJ-00156)

DKK1 Protein, Human, Recombinant (Avi & His), Biotinylated

General Information

Synonyms: Dickkopf-1;Dickkopf-related protein 1;Dkk-1

Protein Construction: Thr32-His266

Species: Human

Expression Host: HEK293 Cells

Accession: O94907

Molecular Weight: 35-50 KDa (reducing condition)

AA Sequence: Thr32-His266

QC Testing

Biological Activity: Immobilized Biotinylated Human DKK-1-Avi-His at 2μg/ml (100 μl/well) can bind Anti-Human DKK-1 mAb . The ED50 of Anti-Human DKK-1 mAb is 6.46 ng/ml. (Regularly tested)

Purity: Greater than 95% as determined by reducing SDS-PAGE. (QC verified)

Endotoxin: < 0.1 ng/μg (1 EU/μg) as determined by LAL test.

Formulation: Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Dickkopf-related protein 1(DKK-1), is a member of the dickkopf family. DKK1 secreted proteins with two cysteine-rich domains separated by a linker region. It 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.

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