

Recombinant Protein Technical Manual

Recombinant Human DKK1/Dkk Protein (His Tag)(Active) RPES0094

Product Data:

Product SKU: RPES0094 Size: 20μg

Species: Human Expression host: HEK293 Cells

Uniprot: NP 036374.1

Protein Information:

Molecular Mass: 25.8 kDa

AP Molecular Mass: 45 kDa

Tag: C-His

Bio-activity: Measured by its ability to inhibit Wnt3a-induced alkaline phosphatase production

by C3H10T1/2 cells. The ED50 for this effect is approximately 0.1-0.4 μg/ml in the

presence of 10 ng/mL of mouse Wnt3a.

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per μg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

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

Immunogen Information:

Sequence: Met 2-His 266

Background:

Dickkopf (DKK) family proteins, consisting of DKK, DKK-2, DKK-3 and DKK-4, function as secreted Wnt antagonists by inhibiting Wnt coreceptors LRP5/6. DKK, DKK-2, and DKK-4 also bind cell surface Kremen or Kremen-2 and promote the internalization of LRP5/6. Dickkopf related protein 1 (DKK) was initially identified as an inducer of head formation in Xenopus embryos. DKK protein modulates Wnt signalling pathway during embryonic development. Increased levels of DKK are found in the majority of lung cancers, esophageal squamous cell carcinomas, and hormone-resistant breast cancers, while DKK expression is decreased in malignant melanoma and colorectal cancers.