

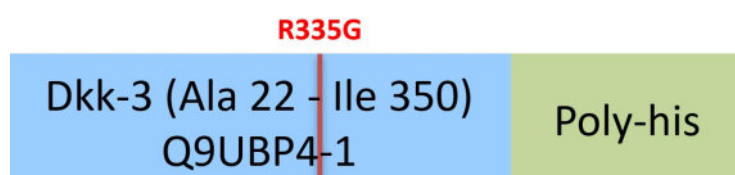
Synonym

DKK3,REIC,RIG

Source

Human Dkk-3 (R335G), His Tag(DK3-H5220) is expressed from human 293 cells (HEK293). It contains AA Ala 22 - Ile 350 (Accession # [Q9UBP4-1](#) (R335G)).

Predicted N-terminus: Ala 22

Molecular Characterization

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 37.0 kDa. The protein migrates as 50-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

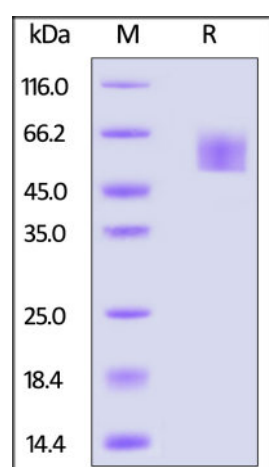
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human Dkk-3 (R335G), His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Members of the dickkopf-related protein family (DKK-1, -2, -3, and -4) are secreted proteins with two cysteine-rich domains separated by a linker region. And DKK3 has been proposed as tumour suppressor gene and a marker for tumour blood vessels. DKK3 is the only DKK family member abundantly expressed in normal lung, but silenced by promoter hypermethylation in a large fraction of lung cancer cell lines and lung tumors. Downregulation of DKK3 was correlated with tumor progression and expression of nuclear beta-catenin in lung tumors. Ectopic expression of DKK3 in lung cancer cells with DKK3 hypermethylation induced apoptosis

and inhibited TCF-4 activity as well as nuclear accumulation of beta-catenin and expression of TCF-4 targets c-Myc and cyclin D1. DKK3 modulates FGF and Activin/Nodal signaling to regulate mesoderm induction during early *Xenopus* development, was reported.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.