

Human TRIB3 / TRB3 Protein (GST Tag)

Catalog Number: 10731-H09B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

C20orf97; NIPK; SINK; SKIP3; TRB3; Ifld2; Nipk; SINK; SKIP3; TRB-3; Trb3

Protein Construction:

A DNA sequence encoding the human TRIB3 (NP_066981.2) (Met 1-Gly 358) was fused with the GST tag at N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:

Kinase activity untested

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human TRIB3/GST chimera consists of 582 amino acids and predicts a molecular mass of 65.8 kDa as estimated in SDS-PAGE under reducing conditions.

Formulation:

Supplied as sterile 50mM Tris, 100mM NaCl, pH 8.0, 0.5mM Reduced Glutathione, 10% gly, 0.5mM PMSF

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

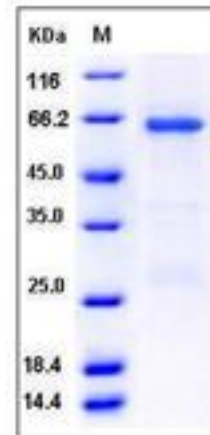
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Tribbles homolog 3, also known as Neuronal cell death-inducible putative kinase, p65-interacting inhibitor of NF-kappa-B, SINK and TRIB3, is a Nucleus protein which belongs to the protein kinase superfamily and CAMK Ser/Thr protein kinase family and Tribbles subfamily. Highest expression Of TRIB3 is in liver, pancreas, peripheral blood leukocytes and bone marrow. It is also highly expressed in a number of primary lung, colon and breast tumors. TRIB3 is expressed in spleen, thymus, and prostate and is undetectable in other examined tissues, including testis, ovary, small intestine, colon, leukocyte, heart, brain, placenta, lung, skeletal muscle, and kidney. TRIB3 disrupts insulin signaling by binding directly to Akt kinases and blocking their activation. TRIB3 may bind directly to and mask the 'Thr-308' phosphorylation site in AKT1. It binds to ATF4 and inhibits its transcriptional activation activity. TRIB3 interacts with the NF-kappa-B transactivator p65 RELA and inhibits its phosphorylation and thus its transcriptional activation activity. It interacts with MAPK kinases and regulates activation of MAP kinases. It may play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells. TRIB3 does not display kinase activity.

References

- 1.Wu M. et al., 2003, J. Biol. Chem. 278: 27072-9.
- 2.Kiss-Toth E. et al., 2004, J. Biol. Chem. 279: 42703-8.
- 3.Ord D., et al., 2005, Biochem. Biophys. Res. Commun. 330: 210-8.

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