

TRIB3 Protein, Human, Recombinant (GST)

General Information

Synonyms:	SKIP3;C20orf97;tribbles pseudokinase 3;TRB3;SINK;NIPK
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. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q96RU7
Molecular Weight:	65.8 kDa (predicted); 65.8 kDa (reducing conditions)

QC Testing

Biological Activity:	Kinase activity untested
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 8.0, 0.5 mM Reduced Glutathione, 10% gly, 0.5 mM PMSF.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

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 that 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-38' phosphorylation site in AKT1. It binds to ATF4 and inhibits its transcriptional activation activity.

A DRUG SCREENING EXPERT

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.

Reference

Wu M. et al., 2003, J. Biol. Chem. 278: 27072-9.

Kiss-Toth E. et al., 2004, J. Biol. Chem. 279: 42703-8.

Ord D., et al., 2005, Biochem. Biophys. Res. Commun. 330: 210-8.

Schwarzer R. et al., 2006, Cell. Signal. 18:899-909. Greenman C. et al., 2007, Nature. 446:153-8.

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