

Recombinant Human TRIB3/TRB3 Protein (GST Tag)

Catalog No. PKSH030388

Note: Centrifuge before opening to ensure complete recovery of vial contents.

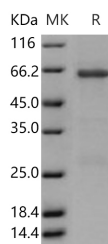
Description

Synonyms	C20orf97;NIPK;SINK;SKIP3;TRB3
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Gly 358
Accession	NP_066981.2
Calculated Molecular Weight	65.8 kDa
Observed molecular weight	65.8 kDa
Tag	N-GST
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as sterile solution of 50mM Tris, 100mM NaCl, pH 8.0, 0.5mM Reduced Glutathione, 10% glycerol, 0.5mM PMSF
Reconstitution	Not Applicable

Data



> 90 % as determined by reducing SDS-PAGE.

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 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,

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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.

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