

TRIB3 Protein, Mouse, Recombinant (His & Myc)

General Information

Synonyms:	Neuronal cell death-inducible putative kinase;Trb3;Nipk;TRB-3;Tribbles homolog 3;Trib3
Protein Construction:	1-354 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q8K4K2
Molecular Weight:	46.5 kDa (predicted)
AA Sequence:	MRATPLAASADVSCRKKPLEFDDNIDAKCPVLKRVRDEPEPGPLPSLLPPSPPPASDLSPAVAPATRLGPYILL EREQGSCSYRALHCPTGTTEYTKVYPASEAQAVLAPYARLPTHQHVARPTEVLLGSRLLYIFFTKTHGDLHSLV RSRRGIPSEEAAGLFRQMASAVAHCHKHGLVLRDLKLRRFVFSNCERTKLVLENLEDACVMTGSDDSLWDKH ACPAYVGP EILSSRPSYSGKAADVWSLGVLFMLAGRYPFHDSEPVLLFGKIRRGTFALPEGLSAPARCLIRCL LRKEPSERLVALGILLHPWLREDHGRVSPQSDRREMDQVVPDGPQLEEAEEGEVGLYG

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Inactive protein kinase which acts as a regulator of the integrated stress response (ISR), a process for adaptation to various stress. Inhibits the transcriptional activity of DDIT3/CHOP and is involved in DDIT3/CHOP-dependent cell death during ER stress. May play a role in programmed neuronal cell death but does not appear to affect non-neuronal cells. Acts as a negative feedback regulator of the ATF4-dependent transcription during the ISR: while TRIB3 expression is promoted by ATF4, TRIB3 protein interacts with ATF4 and inhibits ATF4 transcription activity. Disrupts insulin signaling by binding directly to Akt kinases and blocking their activation. May bind directly to and mask the 'Thr-308' phosphorylation site in AKT1. Interacts with the NF-kappa-B transactivator p65 RELA and inhibits its phosphorylation and thus its transcriptional activation activity. Interacts with MAPK kinases and regulates activation of MAP kinases. Can inhibit APOBEC3A editing of nuclear DNA.

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