TRIB3 Protein, Human (sf9, GST)

Cat. No.:	HY-P74491
Synonyms:	Tribbles homolog 3; TRB-3; SINK; C20orf97; NIPK; SKIP3
Species:	Human
Source:	Sf9 insect cells
Accession:	Q96RU7 (M1-G358)
Gene ID:	57761
Molecular Weight:	Approximately 65.8 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0, 0.5 mM Reduced Glutathione, 10% glycerol, 0.5 mM PMSF.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	The TRIB3 protein, an inactive kinase, operates as a pivotal regulator of the integrated stress response (ISR), a mechanism crucial for adapting to diverse stress conditions. It functions as an inhibitor of the transcriptional activity of DDIT3/CHOP and plays a role in DDIT3/CHOP-dependent cell death during endoplasmic reticulum (ER) stress, particularly in the context of programmed neuronal cell death. Acting as a negative feedback regulator within the ISR, TRIB3 interacts with ATF4, inhibiting ATF4 transcriptional activity while being promoted by ATF4 expression. Moreover, TRIB3 disrupts insulin signaling by directly binding to Akt kinases, impeding their activation, and may mask the 'Thr-308' phosphorylation site in AKT1. Additionally, TRIB3 interacts with various signaling molecules, including NF-kappa-B transactivator p65 RELA, MAPK kinases, and APOBEC3 proteins, showcasing its multifaceted role in diverse cellular processes and stress responses.

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