

Human TRIB2 / TRB2 Protein (His & GST Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 10725-H19B

General Information

Gene Name Synonym:

C5FW; FLJ57420; GS3955; TRB2; TRIB2

Protein Construction:

A DNA sequence encoding the human TRIB2 (NP_067675.1) (Met 1-Asn 343) was fused with the GST tag at the N-terminus and a polyhistidine tag at the C-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 TRIB2/GST chimera consists of 578 amino acids and predicts a molecular mass of 66 kDa.

Formulation:

Supplied as sterile 50mM Tris, 100mM NaCl, 1mM GSH, 0.5mM PMSF, pH 8.0

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:

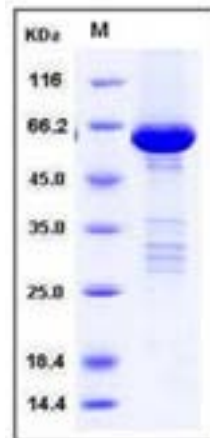
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Tribbles homolog 2, also known as TRB-2, and Trib2, is a member of the protein kinase superfamily and Tribbles subfamily (Trib1, Trib2, Trib3). The identification of tribbles as regulators of signal processing systems and physiological processes, including development, together with their potential involvement in diabetes and cancer, has generated considerable interest in these proteins. Tribbles have been reported to regulate activation of a number of intracellular signalling pathways with roles extending from mitosis and cell activation to apoptosis and modulation of gene expression. Tribbles controls the timing of mitosis in the prospective mesoderm, allowing cell-shape changes to be completed. This mechanism for coordinating cell division and cell-shape changes may have helped *Drosophila* to evolve its mode of rapid early development. Trib2 was identified as a downregulated transcript in leukemic cells undergoing growth arrest. Trib2-transduced bone marrow cells exhibited a growth advantage and readily established factor-dependent cell lines. Trib2-reconstituted mice uniformly developed fatal transplantable acute myelogenous leukemia (AML).

References

1. Seher, TC. et al., 2000, Curr Biol. 10 (11): 623-9.
2. Keeshan, K. et al., 2006, Cancer Cell. 10 (5): 401-11.
3. Hegedus, Z. et al., 2007, Cell Signal. 19 (2): 238-50.

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