Data Sheet (Cat.No.TMPY-04458)

TargetMol

TRIB2 Protein, Human, Recombinant (His & GST)

General Information

Synonyms: TRIBBLE;tribbles pseudokinase 2;TRIB2;C5FW;FLJ57420;GS3955;TRB2

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. Predicted N terminal: Met

Species: Human

Expression Host: Baculovirus Insect Cells

Accession: Q92519

Molecular Weight: 66 kDa (predicted)

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, 1 mM GSH, 0.5 mM PMSF, pH 8.0.

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 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 the activation of some intracellular signalling pathways with roles extending from mitosis and cell activation to apoptosis and modulation of gene expression. Tribbles control 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).

Reference

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Keeshan, K. et al., 2006, Cancer Cell. 10 (5): 401-11.
Hegedus, Z. et al., 2007, Cell Signal. 19 (2):238-50.
Keeshan, K. et al., 2008, Blood Cells Mol Dis. 40 (1): 119-21.
Cvetkovic, LV. et al., 2010, J Clin Invest. 120 (3): 713-9.

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