9051 Mira Mesa Blvd, #910094
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TCL1A Human

T-cell Leukemia/Lymphoma 1A Human Recombinant
RCP2346

Product Overview

Name	TCL1A Human
Description	
T-cell Leukemia/Lymphoma 1A Human Recombinant	
Accession (Primary)	P56279
Synonyms	
T-cell leukemia/lymphoma protein 1A, Protein p14 TCL1, Oncogene TCL-1, Oncogene TCL1, TCL1A, TCL1.	
Introduction	
TCL1A (T-cell leukemia/lymphoma 1A) is a protein with a possible role in intracellular regulation of T cell signaling. TCL1A enhances cell proliferation, stabilizes mitochondrial membrane potential and promotes cell survival. TCL1A is restricted in the T-cell lineage to immature thymocytes and activated peripheral lymphocytes. TCL1A is preferentially expressed early in T and B-lymphocyte differentiation. Chromosomal anomalies activating TCL1A are found in chronic T-cell leukemias (T-CLL). TCL1A enhances the phosphorylation and activation of AKT1, AKT2 and AKT3. TCL1A promotes nuclear translocation of AKT1. TCL1A binds to the pleckstrin homology domain of Akt (protein kinase B) family proteins, which facilitates Akt dimerization and activity. By increasing Akt activity, TCL1A can enhance the serine/threonine phosphorylation of major Akt signaling substrates, for example Ikk complex, mTOR, BAD, p70S6 kinase, FOXO transcription factors and GSK3b. These substrates regulate cellular differentiation, growth, survival, and metabolism.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The TCL1A protein solution contains 50mM Tris-HCl buffer (pH7.5) and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	

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Amino acid sequence

MAECPTLGEA VTDHPDRLWA WEKFVYLDEK QHAWLPLTIE IKDRLQLRVL LRREDVVLGR PMTPTQIGPS LLPIMWQLYP DGRYRSSDSS FWRLVYHIKI DGVEDMLLEL LPDD.

Precautions

TCL1A Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P56279)