

## TCL1A Protein, Human (His)

<b>Cat. No.:</b>	HY-P74530
<b>Synonyms:</b>	T-cell leukemia/lymphoma protein 1A; Oncogene TCL-1; TCL1A; TCL1
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P56279 (A2-D114)
<b>Gene ID:</b>	8115
<b>Molecular Weight:</b>	Approximately 14 kDa

### PROPERTIES

<b>AA Sequence</b>	A E C P T L G E A V    T D H P D R L W A W    E K F V Y L D E K Q    H A W L P L T I E I K D R L Q L R V L L    R R E D V V L G R P    M T P T Q I G P S L    L P I M W Q L Y P D G R Y R S S D S S F    W R L V Y H I K I D    G V E D M L L E L L    P D D
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The T-cell leukemia/lymphoma protein 1A (TCL1A) is a multifaceted regulator that plays a pivotal role in cellular processes. It functions by enhancing the phosphorylation and activation of AKT1, AKT2, and AKT3, leading to their nuclear translocation. Additionally, TCL1A promotes cell proliferation, stabilizes mitochondrial membrane potential, and supports cell survival. Existing as a homodimer, TCL1A interacts with AKT1, AKT2, and AKT3 through their pleckstrin homology (PH) domain. Notably, TCL1A forms a complex with PNPT1, but this interaction does not affect PNPT1 exonuclease activity. The diverse molecular interactions and functional implications of TCL1A underscore its significance in cellular signaling pathways and contribute to our understanding of its role in cell growth and survival (
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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