

## 14-3-3 theta Protein, Human (His)

Cat. No.:	HY-P75548A
Synonyms:	14-3-3 protein theta
Species:	Human
Source:	E. coli
Accession:	P27348 (M1-N245)
Gene ID:	10971
Molecular Weight:	Approximately 29 kDa

### PROPERTIES

AA Sequence	<pre> MEKTELIQKA    KLAEQAERYD    DMATCMKAVT    EQGAELSNEE RNLLSVAYKN    VVGGRRSARW    VISSIEQKTD    TSDKKLQLIK DYREKVESEL    RSICTTVLEL    LDKYLIANAT    NPESKVFYLK MKGDYFRYLA    EVACGDDRKQ    TIDNSQGAYQ    EAFDISKKEM QPTHPIRLGL    ALNFSVFYYE    ILNPELACT    LAKTAFDEAI AELDTLNEDS    YKDSTLIMQL    LRDNLTLWTS    DSAGEECDAA EGAEN           </pre>
Biological Activity	Data is not available.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The 14-3-3 theta protein functions as an adapter implicated in the regulation of a diverse array of both general and specialized signaling pathways, engaging with numerous partners through the recognition of phosphoserine or phosphothreonine motifs. This binding typically results in the modulation of the activity of the interacting partner. Notably,
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14-3-3 theta negatively regulates the kinase activity of PDPK1 and forms homodimers. It interacts with CDK16, RGS7 in its phosphorylated form, SSH1, CDKN1B in its 'Thr-198' phosphorylated form, GAB2, the 'Ser-241' phosphorylated form of PDPK1, and the 'Thr-369' phosphorylated form of DAPK2. Additionally, 14-3-3 theta interacts with PI4KB, TBC1D22A, TBC1D22B, SLITRK1, RIPOR2 isoform 2, INAVA (increasing upon pattern recognition receptor stimulation), MARK2, MARK3, MARK4, and MEFV. These interactions underscore the versatile role of 14-3-3 theta in various cellular processes and signaling pathways.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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