

## 14-3-3 epsilon Protein, Mouse (His)

Cat. No.:	HY-P75549
Synonyms:	14-3-3 protein epsilon, N-GST; YWHAE; 14-3-3E
Species:	Mouse
Source:	E. coli
Accession:	P62259 (M1-Q255)
Gene ID:	22627
Molecular Weight:	Approximately 31 kDa

### PROPERTIES

AA Sequence	<pre> MDDREDLVYQ   AKLAEQAERY   DEMVESMKKV   AGMDVELTVE ERNLLSVAYK   NVIGARRASW   RIISSIEQKE   ENKGGEDKLK MIREYRQME    TELKLICCDI   LDVLDKHLIP   AANTGESKVF YKMKGDYHR    YLAEFATGND   RKEAAENSLV   AYKAASDIAM TELPPTHPIR   LGLALNFSVF   YYEILNSPDR   ACRLAKAAF DAIAELDTLS   EESYKDSTLI   MQLLRDNLTLL WTSDMQGDGE EQNKEALQDV   EDENQ           </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 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	<p>The 14-3-3 epsilon protein serves as an adapter implicated in the regulation of a diverse array of both general and specialized signaling pathways, binding to numerous partners through the recognition of phosphoserine or phosphothreonine motifs, thereby modulating the activity of the binding partner. Notably, it positively regulates the nuclear export of phosphorylated protein HSF1 to the cytoplasm. Existing as a homodimer, it also forms heterodimers with YWHAZ and interacts with various proteins, including PKA-phosphorylated AANAT, ABL1 in its phosphorylated form, ARHGEF28,</p>
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BEX3, CDKN1B, the 'Thr-369' phosphorylated form of DAPK2, DENND1A, GAB2, phosphorylated GRB10, KSR1, NDEL1, PI4KB, TBC1D22A, TBC1D22B, the phosphorylated form of SRPK2, TIAM2, the 'Ser-1134' and 'Ser-1161' phosphorylated form of SOS1, ZFP36, SLITRK1, HSF1 in its phosphorylated form, RIPOR2, KLHL22, CRT1, CRT2 (probably when phosphorylated at 'Ser-171'), CRT3 (probably when phosphorylated at 'Ser-162' and/or 'Ser-273'), ATP2B1, ATP2B3, and MEFV. These interactions highlight the multifaceted role of 14-3-3 epsilon in orchestrating various cellular processes and signaling events.

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

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