

AR09102PU-N**Recombinant Human 14-3-3 eta (aa 1-246), His-tagged****Alternate names:**

Protein AS1, YWHA1, YWHAH

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (By Absorbance at 280nm)

Background:

The 14-3-3 family of proteins plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, β , γ , ϵ , σ , ζ , τ and n that have been identified in mammals. The 14-3-3n (eta), a subtype of the 14-3-3 family of proteins, was found in B cells, brain, cerebrospinal fluid etc. 14-3-3n interacts with and relocalizes the A20 zinc finger protein from the insoluble to the soluble fraction, suggesting a chaperone function.

Uniprot ID:[Q04917](#)**NCBI:**[NP_003396.1](#)**GeneID:**[7533](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** ≥ 95 by SDS-PAGE**Buffer System:** 20 mM Tris pH 8.0 containing 10% Glycerol**Description:**

Recombinant Human 14-3-3n, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SGLVPRGSH MGDREQLLQR ARLAEQAERY DDMASAMKAV TELNEPLSNE
DRNLLSVAYK NVVGARRSSW RVISSIEQKT MADGNEKKLE KVKAYREKIE KELETVCNDV
LSLLDKFLIK NCNDFQYESK VFYLLKMGDY YRYLAEVASG EKKNSVVEAS EAAYKEAFEI
SKEQMOPHP IRLGLALNFS VFYYEIQNAP EQACLLAKQA FDDAIAELDT LNEDSYKDST
LIMQLLRDNL TLWTSQQQDE EAGEGN

Molecular weight: 30.3 kDa (266 aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Sato S, Chiba T, Sakata E, Kato K, Mizuno Y, Hattori N, et al. 14-3-3eta is a novel regulator of parkin ubiquitin ligase. EMBO J. 2006 Jan 11;25(1):211-21. Epub 2005 Aug 11. PubMed PMID: 16096643.
2. Chen J, Lee CT, Errico SL, Becker KG, Freed WJ. Increases in expression of 14-3-3 eta and 14-3-3 zeta transcripts during neuroprotection induced by delta9-tetrahydrocannabinol in AF5 cells. J Neurosci Res. 2007 Jun;85(8):1724-33. PubMed PMID: 17455326.

Pictures:

14-3-3 eta, 1-246 aa, His-tagged: 15%
SDS-PAGE (4 µg)

