## **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-246aa

**UniProt No.** Q04917

NCBI Accession No. NP\_003396

Alternative Names YWHAH, YWHA1, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein eta, Protein AS1

# **PRODUCT SPECIFICATION**

**Molecular Weight** 30.3 kDa (266aa) confirmed by MALDI-TOF

**Concentration** 1mg/ml (determined by absorbance at 280nm)

**Formulation** Liquid in. 20mM Tris-HCl buffer (pH 8.0), 10% glycerol

**Purity** > 95% by SDS-PAGE

**Tag** His-Tag

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

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, beta, gamma, epsilon, sigma, zeta, tau and eta that have been identified in mammals. The 14-3-3eta (eta), a subtype of the 14-3-3 family of proteins, was found in B cells, brain, cerebrospinal fluid etc. 14-3-3eta interacts with and relocalizes the A20 zinc finger protein from the insoluble to the soluble fraction, suggesting a chaperone function. Recombinant human 14-3-3eta, fused to His-tag at N-terminus, was expressed



in E. coli and purified by conventional chromatography techniques.

#### **Amino acid Sequence**

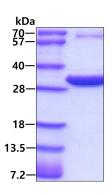
<MGSSHHHHHH SSGLVPRGSH> MGDREQLLQR ARLAEQAERY DDMASAMKAV TELNEPLSNE DRNLLSVAYK NVVGARRSSW RVISSIEQKT MADGNEKKLE KVKAYREKIE KELETVCNDV LSLLDKFLIK NCNDFQYESK VFYLKMKGDY YRYLAEVASG EKKNSVVEAS EAAYKEAFEI SKEQMQPTHP IRLGLALNFS VFYYEIQNAP EQACLLAKQA FDDAIAELDT LNEDSYKDST LIMQLLRDNL TLWTSDQQDE EAGEGN

### **General References**

Sato S., et al. (2006) EMBO J 25(1):211-21 Chen J., et al. (2007), J Neurosci Res. 85(8):1724-33

# DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.