

# Recombinant human 14-3-3 theta protein

Catalog Number: YWQ0702

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-245aa

**UniProt No.**

P27348

**NCBI Accession No.**

NP\_006817

**Alternative Names**

YWHAQ, 14-3-3 protein T-cell, 14-3-3 protein tau, Protein HS1, Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta, Protein theta

## PRODUCT SPECIFICATION

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**Molecular Weight**

27 kDa (245aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

Non-Tagged

**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

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**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 14-3-3 tau, a subtype of the 14-3-3 family of proteins, was found in T Cells, brain and testes. This 14-3-3 tau is upregulated in patients with amyotrophic lateral sclerosis. Recombinant human YWHAQ was expressed in E. coli

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and purified by using conventional chromatography techniques.

## Amino acid Sequence

MEKTELIQKA KLAEQAERYD DMATCMKAVT EQGAELSNEE RNLLSVAYKN VVGRRSAWR VISSIEQKTD TSDKKLQLIK  
DYREKVESEL RSICTTVLEL LDKYLIANAT NPESKVLYLK MKGDYFRYLA EVACGDDRKQ TIDNSQGAYQ EAFDISKKEM  
QPTHPIRLGL ALNFSVFYFE ILNNPELACT LAKTAFDEAI AELDTLNEDS YKDSTLIMQL LRDNLTLWTS DSAGEECDAA  
EGAEN

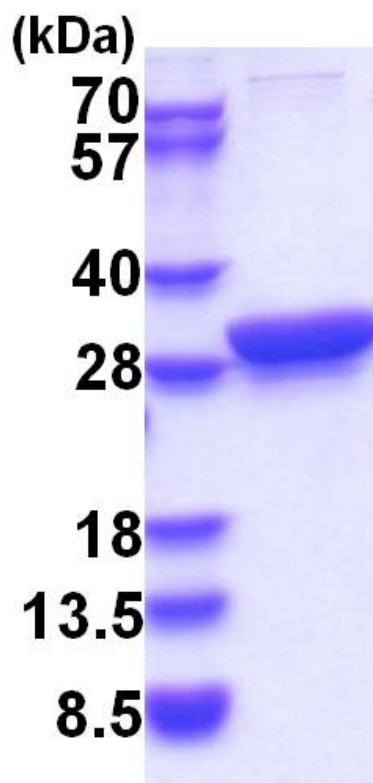
## General References

Liu YC , et al. (1996) J Biol Chem 271: 14591-5

Xiao B , et al. (1995) Nature, 376 188-191

## DATA

### SDS-PAGE



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