

# Product information

## 14-3-3 gamma, 1-247 aa

Human, Recombinant, *E.coli*

Cat. No. IBYWG0701

**Full name:** Tyrosine 3-monooxygenase/ tryptophan 5-monooxygenase activation protein, gamma polypeptide

**Synonyms:** YWHAG

**NCBI Accession No.:** NP\_036611

**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 14-3-3gamma, a subtype of the 14-3-3 family of proteins, was thought to be brain and neuron-specific. It has been shown to interact with RAF1 and protein kinase C, proteins involved in various signal transduction pathways. Recombinant human YWHAG was expressed in *E.coli* and purified by using conventional chromatography techniques.

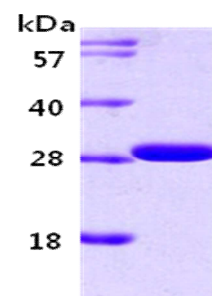
**Form:** Liquid in Phosphate buffered saline (pH7.4), 10% glycerol

**Molecular Weight:** 28 kDa ( 247 aa), confirmed by MALDI-TOF

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

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** < 1.0 EU per 1  $\mu$ g of protein (determined by LAL method)



15% SDS-PAGE (3 $\mu$ g)

**Sequences of amino acids:**

MVDREQLVQK ARLAEQAERY DDMAAMKNV TELNEPLSNE ERNLLSVAYK NVVGARRSSW RVISSIEQKT SADGNEKKIE MVRAYREKIE  
 KELEAVCQDV LSLLDNYLIK NCSETQYESK VFYLLKMKGDY YRYLAEVATG EKRAVTVVSS EKAYSEAHEI SKEHMQPHTP IRLGLALNYS  
 VFYYEIQNAP EQACHLAKTA FDDAIAELDT LINEDSYKDST LIMQLLRDNL TLWTSDDQQDD DGGEQNN

**General references:**

Chen XQ, *et al.* (2005) *Glia*. 42(4):315-24

Chen XQ, Yu AC, *et al.* (2002) *Biochem Biophys Res Commun*. 296(3):657-63

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.