



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Recombinant Human Tyr-3/Trp-5 Monooxygenase Activation Protein, Gamma

**Catalog No.**  
228-11654

**Source**  
*Escherichia Coli.*

### **Synonyms**

14-3-3 protein gamma, Protein kinase C inhibitor protein 1, KCIP-1, YWHAG, Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide.

### **Introduction**

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,  $\gamma_1$ ,  $\gamma_2$ ,  $\gamma_3$ ,  $\gamma_4$ ,  $\gamma_5$ ,  $\gamma_6$  and  $\gamma_7$  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.

### **Description**

YWHAG Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 247 amino acids (1-247) and having a molecular mass of 28 kDa. YWHAG is purified by proprietary chromatographic techniques.

### **Physical Appearance**

Sterile filtered colorless solution.

### **Formulation**

YWHAG solution containing 20mM Tris 7.5.

### **Purity**

Greater than 95.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### **Stability**

YWHAG Human Recombinant although stable at 4°C for 1 week, should be stored desiccated below -18°C.

Please prevent freeze thaw cycles.

### **Amino Acid Sequence**

MVDREQLVQK ARLAEQAERY DDMAAAMKNV TELNEPLSNE ERNLLSVAYK  
NVVGARRSSW RVISSIEQKT SADGNEKKIE MVRAYREKIE KELEAVCQDV  
LSLLDNYLIK NCSETQYESK VFYLMKMGDY YRYLAEVATG EKRA TVV ESS  
EKAYSEAHEI SKEHMQP THP IRLGLALNYS VFYYEIQNAP EQACHLAKTA  
FDDAIAELDT LNEDSYKDST LIMQLLRDNL TLWTSDQQDD DGEGENN .

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