Recombinant human 14-3-3 gamma protein

Catalog Number: YWG0701

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-247aa

UniProt No.
P61981

NCBI Accession No.
NP_036611

Alternative Names
YWHAG, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma, Protein kinase C inhibitor protein 1, KCIP-1, 14-3-3 protein gamma N-terminally processed, protein phosphatase 1, regulatory subunit 170, PPP1R170, 14-3-3γ

PRODUCT SPECIFICATION

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

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

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

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

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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.

Amino acid Sequence

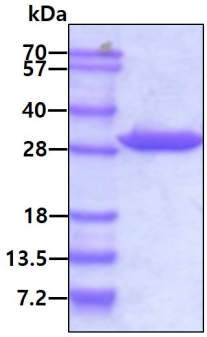
MVDREQLVQK ARLAEQAERY DDMAAAMKNV TELNEPLSNE ERNLLSVAYK NVVGARRSSW RVISSIEQKT SADGNEKKIE MVRAYREKIE KELEAVCQDV LSLLDNYLIK NCSETQYESK VFYLKMKGDY YRYLAEVATG EKRATVVESS EKAYSEAHEI SKEHMQPTHP IRLGLALNYS VFYYEIQNAP EQACHLAKTA FDDAIAELDT LNEDSYKDST LIMQLLRDNL TLWTSDQQDD DGGEGNN

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

DATA

SDS-PAGE



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