Recombinant human 14-3-3 beta/alpha protein

Catalog Number: ATGP3590

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-246aa

UniProt No.
P31946

NCBI Accession No.
NP_003395

Alternative Names
YWHAB, YWHAA, Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein beta/alpha, Protein 1054, Protein kinase C inhibitor protein 1, KCIP-1, 14-3-3 protein beta/alpha N-terminally processed, GW128, HEL-S-1, HS1, KCIP-1

PRODUCT SPECIFICATION

Molecular Weight
30.6 kDa (270aa) confirmed by MALDI-TOF

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

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

Purity
> 90% 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
YWHAB, also known as 14-3-3 protein beta/alpha, is 14-3-3 family 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 beta, a subtype of the 14-3-3 proteins, was found in B Cells,

Recombinant human 14-3-3 beta/alpha protein

Catalog Number: ATGP3590

brain and liver etc. This 14-3-3 beta has been shown to interact with RAF1 and CDC25 phosphatases, suggesting that it may play a role in linking mitogenic signaling and the cell cycle machinery. Recombinant human YWHAB, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

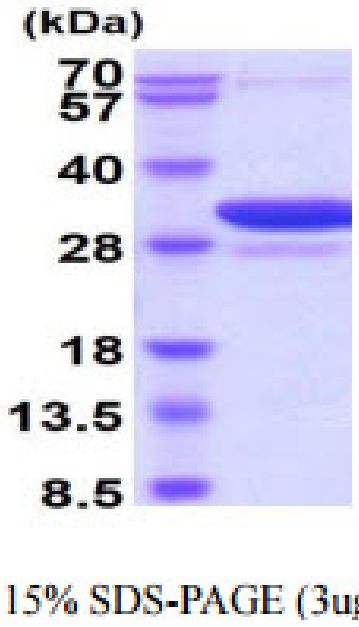
MGSSHHHHHH SSGLVPRGSH MGSHMTMDKS ELVQKAKLAE QAERYDDMAA AMKAVTEQGH ELSNEERNLL SVAYKNVVGA RRSSWRVISS IEQKTERNEK KQQMGKEYRE KIEAELQDIC NDVLELLDKY LIPNATQPES KVFYLKMKGD YFRYLSEVAS GDNKQTTVSN SQQAYQEAFE ISKKEMQPTH PIRLGLALNF SVFYYEILNS PEKACSLAKT AFDEAIAELD TLNEESYKDS TLIMQLLRDN LTLWTSENQG DEGDAGEGEN

General References

Rodriguez LG., et al. (2005) J Cell Physiol. 202(1):285-94.
Mils V., et al. (2000) Oncogene. 19(10):1257-65.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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