Recombinant human 14-3-3 epsilon protein

Catalog Number: YWE0701

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-255aa

UniProt No.
P62258

NCBI Accession No.
NP_006752.1

Alternative Names
YWHAE, tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon, 14-3-3E, HEL2, KCIP-1, MDCR, MDS

PRODUCT SPECIFICATION

Molecular Weight
29 kDa (255aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5)

Purity
> 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

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 epsilon, 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 CDC25 phosphatases, RAF1 and IRS1 proteins, suggesting its role in diverse biochemical

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activities related to signal transduction, such as cell division and regulation of insulin sensitivity. It has also been implicated in the pathogenesis of small cell lung cancer. Recombinant human 14-3-3 epsilon was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

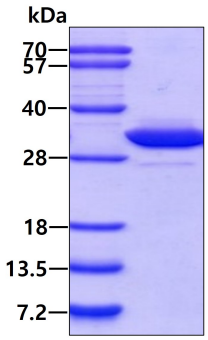
MDDREDLVYQ AKLAEQAERY DEMVESMKKV AGMDVELTVE ERNLLSVAYK NVIGARRASW RIISSIEQKE ENKGGEDKLK MIREYRQMVE TELKLICCDI LDVLDKHLIP AANTGESKVF YYKMKGDYHR YLAEFATGND RKEAAENSLV AYKAASDIAM TELPPTHPIR LGLALNFSVF YYEILNSPDR ACRLAKAAFD DAIAELDTLS EESYKDSTLI MQLLRDNLTL WTSDMQGDGE EQNKEALQDV EDENQ

General References

Oriente F, et al.(2005) J Biol Chem. 280(49):40642-9.
Conklin D, et al.(1995) PNAS. 92(17):7892-6

DATA

SDS-PAGE



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