



Product Datasheet

Product Name	Tyr-3/Trp- 5 Monooxygenase Activation Protein Epsilon Human Recombinant
Cata No	CB500859
Source	<i>Escherichia Coli.</i>
Synonyms	YWHAE, MDS, MDCR, KCIP-1, 14-3-3E, 14-3-3 Epsilon, FLJ45465, Tyr-3/Trp- 5 Monooxygenase Activation Protein Epsilon.

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, β , γ , ϵ , σ , ζ , τ and η 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 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.

YWHAE Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 255 amino acids (1-255) and having a molecular mass of 29 kDa.

YWHAE is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by:

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

Formulation

YWHAE solution containing 20mM Tris 7.5.

Stability

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

Please prevent freeze thaw cycles.

Sequence

MDDREDLVYQ AKLAEQAERY DEMVESMKKV
AGMDVELTVE ERNLLSVAYK
NVIGARRASWRIISSIEQKE ENKGGEDKLK
MIREYRQMVE TELKLI CCDI LDVLDKHLIP
AANTGESKVFYFKMGDYHR YLAEFATGND
RKEAAENSLV AYKAASDIAM TELPPTHPIR
LGLALNFSVFYIEILNSPDR ACRLAKAAFD
DAIAELDTLS EESYKDSTLI MQLLRDNLTL
WTSDMQGDGE EQNKEALQDV EDENQ