Recombinant human Cyclophilin E/PPIE protein

Catalog Number: PPE0901

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-301aa

UniProt No.
Q9UNP9

NCBI Accession No.
NP_006103

Alternative Names
Peptidylprolyl isomerase E isoform 1, CYP-33, Cyclophilin E, PPIase E, Rotamase E, peptidylprolyl isomerase E (cyclophilin E), PPIE, Peptidylprolyl isomerase E isoform 1 Cyclophilin 33, CYP33, EC 5.2.1.8 Peptidyl prolyl cis trans isomerase E,

PRODUCT SPECIFICATION

Molecular Weight
37.5 kDa (337aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0)

Purity
> 95% by SDS-PAGE

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

Biological Activity
Specific activity is > 210nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAPF-pNA per minute at 37C in Tris-Hcl pH8.0 using chymotrypsin.

Tag
His-Tag

Application
SDS-PAGE, Enzyme Activity

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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BACKGROUND

Description

Cyclophilins possess the activity of peptidyl-prolyl cis-trans isomerase (PPIase) and are involved in cellular protein folding and protein interactions. PPIE contains two RNA binding domains at the N-terminal region and a PPIase domain at the C-terminal region. It was not known what cellular and physiological roles of PPIE. Recombinant human PPIE was expressed in E. coli and purified by conventional chromatography techniques.

Amino acid Sequence

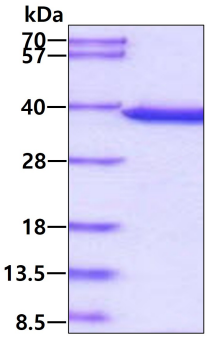
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMATT KRVLYVGGLA EEVDDKVLHA AFIPFGDITD IQIPLDYETE KHRGFAFVEF ELAEDAAAAI DNMNESELFG RTIRVNLAKP MRIKEGSSRP VWSDDDWLKK FSGKTLEENK EEEGSEPPKA ETQEGEPIAK KARSNPQVYM DIKIGNKPAG RIQMLLRSDV VPMTAENFRC LCTHEKGFGF KGSSFHRIIP QFMCQGGDFT NHNGTGGKSI YGKKFDDENF ILKHTGPGLL SMANSGPNTN GSQFFLTCDK TDWLDGKHVV FGEVTEGLDV LRQIEAQGSK DGKPKQKVII ADCGEYV

General References

Wang Y., et al. (2008) FEBS Lett. 582(5):835-9.
Mi H., et al. (1996) FEBS Lett. 398:201-5.

DATA

SDS-PAGE



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