Recombinant human Cyclophilin G/PPIG protein

Catalog Number: ATGP0431

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-175aa

UniProt No.
Q13427

NCBI Accession No.
AAH01555

Alternative Names
Peptidyl-prolyl cis-trans isomerase G, PPIase G, Rotamase G, Cyclophilin G, CASP10, PPIG, Peptidyl-prolyl cis-trans isomerase G,peptidylprolyl isomerase G (cyclophilin G), CARS-Cyp, SRCyp, SCAF10, SR-related CTD-associated factor 10,

PRODUCT SPECIFICATION

Molecular Weight
21.6 kDa (195aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 95% by SDS-PAGE

Biological Activity
Specific activity is > 600nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmol of suc-AAPF-pNA per minute at 37C in Tris-HCl pH 8.0 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.

BACKGROUND

Description
Peptidyl-prolyl cis-trans isomerase G (PPIG), also known as Cyclophilin G, is a member of peptidyl-prolyl cis-trans

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isomerase family (PPIases). This protein catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and is implicated in the folding, transport, and assembly of proteins. It is localized to the nuclear speckles, a nuclear compartment rich in splicing factors, and interacts with the splicing factors SC35 and pinin. Cyclophilin G also may play an important role in the regulation of pre-mRNA splicing. Recombinant human Cyclophilin G, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

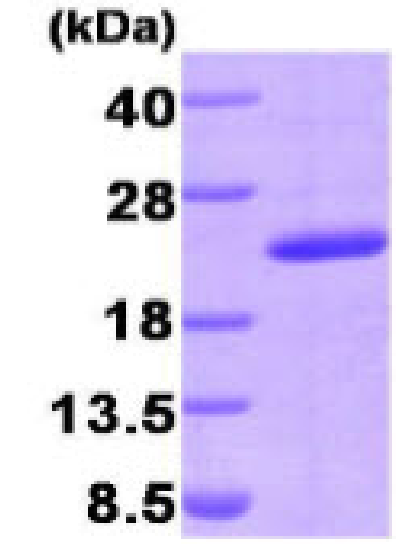
MGSSHHHHHH SSGLVPRGSH MGIKVQRPRC FFDIAINNQP AGRVVFELFS DVCPKTCENF RCLCTGEKGT GKSTQKPLHY KSCLFHRVVK DFMVQGGDFS EGNGRGGESI YGGFFEDESF AVKHNKEFLL SMANRGKDTN GSQFFITTKP TPHLDGHHVV FGQVISGQEV VREIENQKTD AASKPFAEVR ILSCG

General References

Modjtahedi N., et al. (2004). J Biol Chem. 279(21):22322-30
Ouyang P., et al. (2004). Biochem Biophys Re Commun. 321 (3): 638-47

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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