Recombinant human Cyclophilin-like 1/PPIL1 protein

Catalog Number: PPL0901

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-166aa

UniProt No.
Q9Y3C6

NCBI Accession No.
NP_057143

Alternative Names
Peptidyl-prolyl cis-trans isomerase-like 1, Peptidylprolyl isomerase like 1, Cyclophilin like 1, CYPL1, Rotamase PPIL1, PPIase

PRODUCT SPECIFICATION

Molecular Weight
19.3 kDa (174aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 95% by SDS-PAGE

Biological Activity
Specific activity is > 700nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole 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
Peptidylprolyl isomerase (cyclophilin) -like 1, also known as PPIL1, is a member of peptidyl-propyl cis-trans isomerase (PPIase) family, which catalyzes the cis-trans isomerization of proline imidic peptide bonds in

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oligopeptides and accelerates the folding of proteins. Human PPIL1 might play an important role in proliferation of cancer cells through modulation of phosphorylation of stathmin. So it is expected as a novel molecular target for colon-cancer therapy. Recombinant PPIL1, fused to His-tag at C-terminus, was expressed in E. coli and purified by conventional chromatography techniques.

Amino acid Sequence

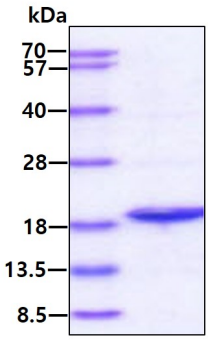
MAAIPPDSWQ PPNVYLETSM GIIVLELYWK HAPKTCKNFA ELARRGYYNG TKFHRIIKDF MIQGGDPTGT GRGGASIYGK QFEDELHPDL KFTGAGILAM ANAGPDTNGS QFFVTLAPTQ WLDGKHTIFG RVCQGIGMVN RVGMVETNSQ DRPVDDVKII KAYPSG<LEHH HHHH>

General References

Xu C., et al. (2006) J Biol Chem. 281(23):15900-8.
Obama K., et al. (2006) Clin Cancer Res. 12(1):70-6.

DATA

SDS-PAGE



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