

AR09560PU-S

Human FKBPL (1-349, His-tag) - Purified

Alternate names:

DIR1, FK506-binding protein-like, NG7, WAF-1/CIP1 stabilizing protein 39, WISp39

Quantity:

10 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

FKBPL has similarity to the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This protein is thought to have a potential role in the induced radioresistance and it appears to have some involvement in the control of the cell cycle. Also, FKBPL is involved in cellular response to stress. And it is known to interact with Hsp90, glucocorticoid receptor and dynamin and may play a role in signalling, like other FKBP.

Uniprot ID:

[Q9UIM3](#)

NCBI:

[NP_071393](#)

GeneID:

[63943](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2 mM DTT, 100 mM NaCl

Description:

Recombinant FKBPL protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

METPPVNTIG EKDTSPQQE WEKNLRENLD SVIQIRQQPR DPPTETLELE VSPDPASQIL
EHTQGAELV AELEGDSHKS HGSTSQMPEA LQASDLWYCP DGSFVKKIVI RGHGLDKPKL
GSCCRVLALG FPFSGPPEG WTELTMGVGP WREETWGELI EKCLESMCQG EEAELQLPGH
SGPPVRLTLA SFTQGRDWE LETSEKEALA REERARGTEL FRAGNPEGAA RCYGRALRL
LTLPPPGPPE RTVLHANLAA CQLLLGQPQL AAQSCDRVLE REPGHLKALY RRGVAQAALG
NLEKATADLK KVLAIKPKNR AAQEELGKVV IQGKNQDAGL AQGLRKMFG LEHHHHHH

Specific Activity: > 210 nmoles/min/mg, defined as the amount of enzyme that cleaves

1 umole of suc-AAFP-pNA per minute at 25°C in Tris-HCl pH 8.0 using chymotrypsin

Molecular weight: 39.2 kDa (357aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

McKeen HD., et al. (2008) Endocrinology 149: 5724.

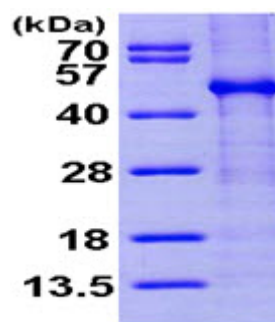
Jascur T., et al (2005) Mol. Cell 17 (2): 237-49.

Protocols:

Activity Assay

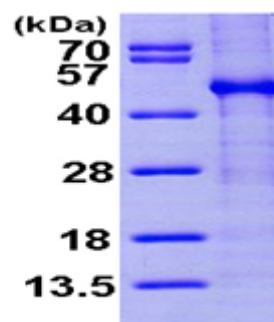
1. Prepare 170 ul assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 200 mM Tris-HCl, pH 8.0, and 20nM chymotrypsin.
2. Add 10 ul of recombinant FKBPL protein with 1 ug in assay buffer.
3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant using a spectrophotometer.
4. Add 20 ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460mM LiCl to a concentration of 3 mM)
5. Record the increase in A405 nm for 30 minutes at 25°C.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human FKBPL, 1-349aa, His-tagged



15% SDS-PAGE (3ug)