

## FKBPL, 1-349aa

Human, His-tagged, Recombinant, E.coli

Cat. No. IBATGP0623

Full name: FK506 binding protein like

NCBI Accession No.: NP\_071393

Synonyms: DIR1, NG7, WISP39

**Description:** 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 dynamitin and may play a role in signalling, like other FKBP. Recombinant FKBPL protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

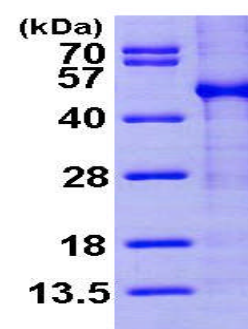
**Form:** Liquid in 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 2mM DTT, 100mM NaCl

**Molecular Weight:** 39.2 kDa (357aa) confirmed by MALDI-TOF

**Purity:** > 90% by SDS - PAGE

**Concentration:** 0.25 mg/ml (determined by Bradford assay)

**Biological activity:** Specific activity is > 210 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25C in Tris-Hcl pH8.0 using chymotrypsin.



15% SDS-PAGE (3ug)

### Activity Assay

1. Prepare 170ul 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 10ul of recombinant FKBPL protein with 1ug in assay buffer.
3. Mix by inversion and equilibrate to 1C and monitor the A405nm until the value is constant using a spectrophotometer.
4. Add 20ul 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 25C.

### Sequences of amino acids:

METPPVNTIG EKDTSQPQQE WEKNLRENLD SVIQIRQQPR DPPTETLELE VSPDPASQIL EHTQGAELV ALEGDSHKS HGSTSQMPEA  
LQASDLWYCP DGSFVKKIVI RGHGLDKPKL GSCCRVLALG PFGSGPPEG WTELTMGVGP WREETWGELI EKCLESMCQG EEAELQLPGH  
SGPPVRLTLA SFTQGRDSE LETSEKEALA REERARGTEL FRAGNPEGAA RCYGRALRL LTLPPPGPPE RTVLHANLAA CQLLLGQPQL  
AAQSCDRVLE REPGHLKALY RRGVAQAALG NLEKATADLK KVLAIIDPKNR AAQEELGKVV IQGKNQDAGL AQGLRKMFGLE EHHHHHH

### General references:

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

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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. 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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