Recombinant Human FK506 Binding Protein Like, His-tagged

Cat. No. FKBPL-2725H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FKBPL protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques, 39.2kDa (357aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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 FKBPs.
Sequences Of Amino Acids	METPPVNTIG EKDTSQPQQE WEKNLRENLD SVIQIRQQPR DPPTETLELE VSPDPASQIL EHTQGAEKLV AELEGDSHKS HGSTSQMPEA LQASDLWYCP DGSFVKKIVI RGHGLDKPKL GSCCRVLALG FPFGSGPPEG WTELTMGVGP WREETWGELI EKCLESMCQG EEAELQLPGH SGPPVRLTLA SFTQGRDSWE LETSEKEALA REERARGTEL FRAGNPEGAA RCYGRALRLL LTLPPPGPPE RTVLHANLAA CQLLLGQPQL AAQSCDRVLE REPGHLKALY RRGVAQAALG NLEKATADLK KVLAIDPKNR AAQEELGKVV IQGKNQDAGL AQGLRKMFGL EHHHHHH

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Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl.
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 25°C in Tris-Hcl pH8.0 using chymotrypsin.
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 1°C 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 25°C.
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.

GENE INFORMATION

Gene Name	FKBPL FK506 binding protein like [Homo sapiens]
Synonyms	FKBPL; FK506 binding protein like; NG7; DIR1; WISP39;FK506-binding protein like; WAF-1/CIP1 stabilizing protein 39
Gene ID	63943

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mRNA Refseq	NM_022110
Protein Refseq	NP_071393
UniProt ID	Q9UIM3
Chromosome Location	6p21.3

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