

Product datasheet for AR09016PU-L

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Cyclophilin-40 (1-370, His-tag) Human Protein

Product data:

Product Type: Recombinant Proteins

Description: Cyclophilin-40 (1-370, His-tag) human recombinant protein, 0.5 mg

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

Concentration:

MGSSHHHHHH SSGLVPRGSH MSHPSPQAKP SNPSNPRVFF DVDIGGERVG RIVLELFADI VPKTAENFRA LCTGEKGIGH TTGKPLHFKG CPFHRIIKKF MIQGGDFSNQ NGTGGESIYG

EKFEDENFHY KHDREGLLSM ANAGRNTNGS QFFITTVPTP HLDGKHVVFG QVIKGIGVAR

ILENVEVKGE KPAKLCVIAE CGELKEGDDG GIFPKDGSGD SHPDFPEDAD IDLKDVDKIL LITEDLKNIG

NTFFKSQNWE MAIKKYAEVL RYVDSSKAVI ETADRAKLQP IALSCVLNIG ACKLKMSNWQ GAIDSCLEAL ELDPSNTKAL YRRAQGWQGL KEYDQALADL KKAQGIAPED KAIQAELLKV

KQKIKAQKDK EKAVYAKMFA

Tag: His-tag

Predicted MW: 42.9 kDa

Purity: by SDS-PAGE

Buffer: Presentation State: Purified

lot specific

State: Liquid purified protein

Buffer System: PBS, pH 7.4, 10% glycerol

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

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

Preparation: Liquid purified protein

Applications: Protocol: 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 Cyclophilin D 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 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.





Cyclophilin-40 (1-370, His-tag) Human Protein - AR09016PU-L

Protein Description: Recombinant human cyclophilin D, fused to His-tag, was expressed in E.coli and purified by

conventional chromatography techniques.

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.

Stability: Shelf life: one year from despatch.

RefSeq: NP 005029

Locus ID: 5481

UniProt ID: <u>Q08752</u>, <u>E5KN55</u>

Cytogenetics: 4q32.1

Synonyms: CYP-40; CYPD

Summary: The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase

(PPlase) family. PPlases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein has been shown to possess PPlase activity and, similar to other family members, can bind to the immunosuppressant

cyclosporin A. [provided by RefSeq, Jul 2008]

Protein Families: Stem cell - Pluripotency

Protein Pathways: Calcium signaling pathway, Huntington's disease, Parkinson's disease

Product images:

