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Product datasheet for AR09397PU-N

PPIL2 (1-527, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	PPIL2 (1-527, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGKRQHQKDK MYITCAEYTH FYGGKKPDLP QTNFRRLPFD HCSLSLQPFV YPVCTPDGIV FDLLNIVPWL KKYGTNPSNG EKLDGRSLIK LNFSKNSEGK YHCPVLFTVF TNNTHIVAVR TTGNVYAYEA VEQLNIKAKN FRDLLTDEPF SRQDIITLQD PTNLDKFNVS NFYHVKNNMK IIDPDEEKAK QDPSYYLKNT NAETRETLQE LYKEFKGDEI LAATMKAPEK KKVDKLNAAH YSTGKVSASF TSTAMVPETT HEAAAIDEDV LRYQFVKKKG YVRLHTNKGD LNLELHCDLT PKTCENFIRL CKKHYYDGTI FHRSIRNFVI QGGDPTGTGT GGESYWGKPF KDEFRPNLSH TGRGILSMAN SGPNSNRSQF FITFRSCAYL DKKHTIFGRV VGGFDVLTAM ENVESDPKTD RPKEEIRIDA TTVFVDPYEE ADAQIAQERK TQLKVAPETK VKSSQPQAGS QGPQTFRQGV GKYINPAATE QQRKSPQPVP LSPCPRRSPV GVLGTSAPGS SRLPDDH
Tag:	His-tag
Predicted MW:	61.6 kDa
Concentration:	lot specific
Purity:	>90 % by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1 M NaCl
Bioactivity:	Specific: > 290 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

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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 PPIL2 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.

Protein Description: Recombinant PPIL2 protein, fused to His-tag, was expressed in E.coli and purified by using 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_001304925

Locus ID: 23759

UniProt ID: Q13356, A0A024R1C1, A8K0I0

Cytogenetics: 22q11.21

Synonyms: CYC4; Cyp-60; CYP60; hCyP-60; UBOX7

Summary: This gene is a member of the cyclophilin family of peptidylprolyl isomerases. The cyclophilins are a highly conserved ubiquitous family, members of which play an important role in protein folding, immunosuppression by cyclosporin A, and infection of HIV-1 virions. This protein interacts with the proteinase inhibitor eglin c and is localized in the nucleus. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2015]

Protein Families: Druggable Genome

Protein Pathways: Ubiquitin mediated proteolysis

Product images: