
Product Data Sheet

Product Name: PPIL2 Human
 Cat. No.: GP22132
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CYC4; Cyp-60; CYP60; hCyP-60; Peptidyl-prolyl cis-trans isomerase-like 2; PPIase; Rotamase PPIL2; Cyclophilin-60; Cyclophilin-like protein Cyp-60; PPIL2; MGC787; FLJ39930; MGC33174.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGKRQH QDK MYITCAEYTH FYGGKKPDLP QTNFRRLPFD HCSLSLQPFV YPVCTPDGIV FDLLNIVPWL KKYGTNPSNG EKLDGRSLIK LNFSKNSEGK YHCPVLFTVF TNNTHIVAVR TTGNVYAYEA VEQLNIKAKN FRDLLTDEPF SRQDIITLQD PTNLDFKNVS NFYHVKNMNMK IIDPDEEKAK QDPSYYLKNT NAETRETLQE YKEFKGDEI LAATMKAPEK KKVDKLNAAH YSTGKVSASF TSTAMVPETT EAAAIDEDV LRYQFVKKKG YVRLHTNKGD LNLELHCDLT PKTCENFIRL CKKHYYDGTI FHRSIRNFVI QGGDPTGTGT GGESYWGKPF KDEFRPNLSH TGRGILSMAN SGPNSNRSQF FITFRSCAYL DKKHTIFGRV VGGFDVLTAM ENVESDPKTD RPKEEIRIDA TTVFVDPYEE ADAQIAQERK TQLKVAPETK VKSSQPQAGS QGPQTFRQGV GKYINPAATE QQRKSPQPVP LSPCRRSPV GVLGTSAPGS SRLPDDH.		
Formulation	The PPIL2 solution contains 20mM Tris-HCl pH-8, 0.1M NaCl and 20% glycerol.		

Introduction

PPIL2 is part of the cyclophilin family of peptidylprolyl isomerases which are highly conserved ubiquitous proteins that play an important role in protein folding, immunosuppression by cyclosporin A, and infection of HIV-1 virions. PPIL2 interacts with the proteinase inhibitor eglin c and is localized in the nucleus. PPIL2 increases folding of proteins and catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

Biological Activity

Caution: Product has not been fully validated for medical applications. For research use only.

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Specific activity is > 290 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PPIL2 Human Recombinant fused to 20 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 547 amino acids (1-527 a.a.) and having a molecular mass of 61.6 kDa. The PPIL2 is purified by proprietary chromatographic techniques.

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