
Product Data Sheet

Product Name: PPIL4 Human
 Cat. No.: GP22133
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peptidyl-prolyl cis-trans isomerase-like 4; PPIase; Cyclophilin-like protein PPIL4; Rotamase PPIL4; PPIL4; HDCME13P.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MAVLLETTLG DVVIDLYTEE RPRACLNFLK LCKIKYYNYC LIHNVQRDFI IQTGDPTGTG RGGESIFGQL YGDQASFFEA EKVPRIKHKK KGTVSMVNNG SDQHGSQFLI TTGENLDYLD GVHTVFG EVT EGMDI IKKIN ETFVDKDFVP YQDIRINHTV ILDDPFDDPP DLLIPDRSPE PTREQLDSGR IGADEEIDDF KGRSAEEVEE IKAKEKEAKTQ AILLEMVGD L PDADIKPPEN VLFVCKLNPV TTDEDLEIIF SRFGPIRSCE VIRDWKTGES LCYAFIEFEK EEDCEKAFFK MDNVLIDRR IHVDFSQSVA KVKWKKGKGGK YTKSDFKEYE KEQDKPPNLV LKDKVKPKQD TKYDLILDEQ AEDSKSSHSH TSKKHKKKTH HCSEEKED EYMPIKNTNQD IYREMGFGHY EEEESCWEKQ KSEKRDRTQN RSRRSRERD GHYSNSHKSK YQTDLYERER SKKRDRSRSP KKSKDKEKSK YR.</p>		
Formulation	The PPIL solution (0.5 mg/ml) contains 20mM Tris-HCl buffer(pH 8.0), 10% glycerol, 2mM DTT and 0.1M NaCl.		

Introduction

PPIL4 belongs to an evolutionarily conserved cyclophilin-type PPIase family of proteins. PPIL4, which is ubiquitously expressed with predominant expression in kidney localizes to the nucleus and contains one PPIase cyclophilin-type domain, a lysine-rich domain, a pair of bipartite nuclear targeting sequences and one RRM (RNA recognition motif) domain. The presence of the RRM domain along with nuclear targeting sequences implies that PPIL4 may be involved in transcriptional regulation.

Biological Activity

Specific activity is > 190 nmoles/min/mg. and is defined as the amount of enzyme that

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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

PPIL4 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 512 amino acids (1-492 a.a.) and having a molecular mass of 59.4kDa. The PPIL4 is purified by proprietary chromatographic techniques.

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