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PPIC Protein (AA 31-182) (TRX tag, His tag)



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Overview

Quantity:	50 μg
Target:	PPIC
Protein Characteristics:	AA 31-182
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPIC protein is labelled with TRX tag, His tag.

Product Details

Purpose:	Recombinant Human Cyclophilin C/PPlase C/PPIC (N-Trx, 6His)
Sequence:	MSDKIIHLTD DSFDTDVLKA DGAILVDFWA EWCGPCKMIA PILDEIADEY QGKLTVAKLN
	IDQNPGTAPK YGIRGIPTLL LFKNGEVAAT KVGALSKGQL KEFLDANLAG SGSGHMHHHH
	HHSSGLVPRG SGMKETAAAK FERQHMDSPD LGTDDDDKAM AKRGPSVTAK VFFDVRIGDK
	DVGRIVIGLF GKVVPKTVEN FVALATGEKG YGYKGSKFHR VIKDFMIQGG DITTGDGTGG
	VSIYGETFPD ENFKLKHYGI GWVSMANAGP DTNGSQFFIT LTKPTWLDGK HVVFGKVIDG
	MTVVHSIELQ ATD
Characteristics:	Recombinant Human Cyclophilin C/PPIase C/PPIC (N-Trx, 6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 μm filtered
Endotoxin Level:	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target:	PPIC
Alternative Name:	Cyclophilin C (PPIC Products)
Background:	Recombinant Human Cyclophilin C/CYPC is produced by our E. coli expression system. The target protein is expressed with sequence (Trp131-Asp182) of Human CYPC fused with a His tag at the N-terminus. Cyclophilin C is an enzyme (EC 5.2.1.8) found in both prokaryotes and eukaryotes that interconverts the cis and trans isomers of peptide bonds with the AA proline. Proline has an unusually conformationally restrained peptide bond due to its cyclic structure with its side chair bonded to its secondary amine nitrogen. Most AAs have a strong energetic preference for the trans peptide bond conformation due to steric hindrance, but prolines unusual structure stabilizes the cis form so that both isomers are populated under biologically relevant conditions. Proteins with prolyl isomerase activity include cyclophilin, FKBPs, and parvulin,
	although larger proteins can also contain prolyl isomerase domains.
Molecular Weight:	33.78 kDa
UniProt:	P45877
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH20. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 10 % Glycerol, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months