
Product Data Sheet

Product Name: Cyclophilin A Rat
 Cat. No.: GP21520
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Peptidyl-prolyl cis-trans isomerase A; EC:5.2.1.8; PPIase A; Cyclophilin A; Cyclosporin A-binding protein; Rotamase A; p1B15; p31; Ppia.		
Amino Acid Sequence	MKHHHHHHASVNPTVFFDIT ADGEPLGRVC FELFADKVPK TAENFRALST GEKGFYKGS SFHRIIPGFM CQGGDFTRHN GTGGKSIYGE KFEDENFILK HTGPGILSMA NAGPNTNGSQ FFICTAKTEW LDGKHVVFGK VKEGMSIVEA MERFGSRNGK TSKKITISDC GQL.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Cyclophilin-A is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	Cyclophilin-A was filtered (0.4µm) and lyophilized from 0.5mg/ml solution in phosphate buffered saline and 5%(w/v) trehalose.		

Introduction

PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. Cyclophilin-A is a cyclosporin binding-protein and may play a role in cyclosporin A-mediated immunosuppression. Cyclophilin-A can also interact with several HIV proteins, including p55 gag, Vpr, and capsid protein, and has been shown to be necessary for the formation of infectious HIV virions. Multiple pseudogenes that map to different chromosomes have been reported.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

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

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Background

Cyclophilin-A Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (Val2-Leu164) containing 173 amino acids including a 10 aa His tag at N-terminus. The total calculated molecular mass is 19kDa.

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