
Product Data Sheet

Product Name: Cyclophilin D Human

Cat. No.: GP21527

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peptidylprolyl isomerase D; PPID; CYPD; CYP-40; 40 kDa peptidyl-prolyl cis-trans isomerase; PPIase; Rotamase; Cyclophilin-40; CYP40; Cyclophilin-related protein; MGC33096; EC 5.2.1.8.		
Amino Acid Sequence	CSKGSGDPSS SSSSGNPLVY LDVDANGKPL GRVVLELKAD VVPKTAENFR ALCTGEKGFY YKGSTFHRVI PSFMCQAGDF TNHNGTGGKS IYGSRFPDEN FTLKHVGPV LSMANAGPNT NGSQFFICTI KTDWLDGKHV VFGHVKEGMD VVKKIESFGS KSGRTSKKIV ITDCGQLS.		
Formulation	Cyclophilin-D 0.2µm filtered solution containing PBS pH7.4, 1mM DTT and 10% glycerol.		

Introduction

Cyclophilin-D is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and speeds up the protein folding. Cyclophilin-D possess PPIase activity and binds to the immunosuppressant cyclosporin-A. Cyclophilin-D is very well known that its overexpression suppresses the apoptosis in cancer cell. Cyclophilin-D suppresses apoptotic cell death by the use of mitochondrial hexokinase-2 dependent mechanism in cancer cells.

Biological Activity

Specific activity is > 250 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1µmole of suc-AAFP-pNA per minute at 25°C 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

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

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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

Cyclophilin-D Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 178 amino acids and having a molecular mass of 18.9kDa. The Cyclophilin-D is purified by proprietary chromatographic techniques.

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