

Recombinant Human Cyclophilin D

Information

Gene ID	10105
Accession #	P30405
Alternate Names	PPIF, Cyclophilin F, CyP-M, Rotamase F
Source	Escherichia coli.
M.Wt	Approximately 18.9 kDa, a single non-glycosylated polypeptide chain containing 178 amino acids.
AA Sequence	CSKGSGDPSS SSSSGNPLVY LDVDANGKPL GRVVLELKAD VVPKTAENFR ALCTGEKGFY YKGSTFHRVI PSFMCQAGDF TNHNGTGGKS IYGSRFPDEN FTLKHVPGV LSMANAGPNT NGSQFFICTI KTDWLDGKHV VFGHVKEGMD VVKIESFGS KSGRTSKKIV ITDCGQLS
Appearance	Sterile colorless liquid.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 6 months from date of receipt, -20 to -70 °C as supplied - 3 months, -20 to -70 °C under sterile conditions after opening
Formulation	Supplied as a 0.2 µm filtered solution in PBS, pH7.4, with 1 mM DTT, 10 % glycerol.
Reconstitution	
Biological Activity	Data Not Available.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	500µg
Recombinant Human Cyclophilin D	10µg	500µg
Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 6 months from date of receipt, -20 to -70 ° C as supplied		

- 3 months, -20 to -70 ° C under sterile conditions after opening

Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 0.1 EU/ μ g of rHuCyP-D as determined by LAL method.

Description

CyP-D is a part of the peptidyl-prolyl cis-trans isomerase (PPIase) family. CyP-D accelerates the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. CyP-D is key component of the mitochondrial permeability transition pore in the inner mitochondrial membrane. Activation of this pore is thought to be involved in the induction of apoptotic and necrotic cell death.

Reference

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