

Recombinant Human Cyclophilin D

#R00570

Size: 10 µg/500 µg

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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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.

AA Sequence

CSKGSGDPSSSSSSGNPLVYLDVDANGKPLGRVVLE
LKADVVPKTAENFRALCTGEKGFGYKGSTFHRVIPSF
MCQAGDFTNHNGTGKSIYGSRFPDENFTLKHVGP
GVLSMANAGPNTNGSQFFICTIKTDWLDGKHVVFGH
VKEGMDVVKKIESFGSKSGRTSKKIVITDCGQLS

Reconstitution

Product Specification

Synonyms	PPIF, Cyclophilin F, CyP-M, Rotamase F
Accession	P30405
GeneID	10105
Unigene	Hs.381072
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 18.9 kDa, a single non-glycosylated polypeptide chain containing 178 amino acids.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Data Not Available.
Physical	Sterile colorless liquid.
Appearance	
Formulation	Supplied as a 0.2 µm filtered

Endotoxin

solution in PBS, pH7.4, with 1 mM DTT, 10 % glycerol.
Less than 0.1 EU/µg of rHuCyP-D as determined by LAL method.