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California Bioscience

Product Datasheet

Product Name	Cyclophilin-D Human Recombinant
Cata No	CB501376
Source	*Escherichia Coli.*
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.

Description

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. Cyclophilin-D Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 390 amino acids and having a molecular mass of 42.9 kDa. Cyclophilin-D is fused to His Tag at N-terminus and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

1mg/ml solution containing 1x PBS pH-7.4 & 10% glycerol.

Stability

Cyclophilin-D Human Recombinant although stable at 4°C for 1 week, should be stored desiccated below -18°C.
Please prevent freeze thaw cycles.

Sequence

MGSSHHHHHH SSGLVPRGSH MSHPSPQAKP SNPSNPRVFFDVDIGGERVG RIVLELFADI VPKTAENFRA LCTGEKGIGH TTGKPLHFKG CPFHRIIKKF MIQGGDFSNQ NGTGGESIYG EKFEDENFHY KHDREGLLSMANAGRNTNGS QFFITTVPTP HLDGKHVVFG QVIKGIGVAR ILENVEVKGEKPAKLCVIAE CGELKEGDDG GIFPKDGSGD SHPDFPEDAD IDLKDVDKIL LITEDLKNIG NTFFKSQNWE MAIKKYAEVL RYVDSSKAVI ETADRAKLQPIALSCVLNIG ACKLKMSNWQ GAIDSCLEAL ELDPSNTKAL YRRAQGWQGLKEYDQALADL KKAQGIAPED KAIQAELLKV KQKIKAQKDK EKAVYAKMFA

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