

Cyclophilin D Human

Description: 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.

Catalog #: ENPS-374

For research use only.

Synonyms: Peptidylprolyl isomerase D, PPID, CYPD, CYP-40, 40 kDa peptidyl-prolyl cis-trans isomerase, PPlase, Rotamase, Cyclophilin-40, CYP40, Cyclophilin-related protein, MGC33096, EC 5.2.1.8.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MSHPSQAKP
SNPSNPRVFFDVIDGGERVG RIVLELFADI VPKTAENFRA LCTGEKGIGH TTGKPLHFKG
CPFHRIKKF MIQGGDFSQ NGTGGESIYG EKFEDEFHY KHDREGLLSMANAGRNTNGS
QFFITVPTP HLDGKHVVFG QVIKGIGVAR ILENVEVKGEKPAKLCVIAE CGELKEGDDG
GIFPKDGS GD SHPDFPEDAD IDLKD

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

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

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Cyclophilin-D is a member of the peptidyl-prolyl cis-trans isomerase (PPlase) family. PPlases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and speeds up the protein folding. Cyclophilin-D possess PPlase 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 > 210 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25C in Tris-Hcl pH8.0 using chymotrypsin.

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