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32-2245: Cyclophilin D Recombinant Protein

Alternative Name :	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

Source : Escherichia Coli. Cyclophilin-D Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (amino acids 1-370) containing 390 amino acids and having a molecular mass of 42.9kDa. Cyclophilin-D is fused to a 20 aa His Tag at N-terminus and is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	1mg/ml solution containing 1x PBS pH-7.4 & 10% glycerol.
Storage condition :	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.
Amino Acid :	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.

Application Note

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.