
Product Data Sheet

Product Name: Cyclophilin G Human

Cat. No.: GP21532

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peptidyl-prolyl cis-trans isomerase G; PPlase G; Rotamase G; PPIG; peptidylprolyl isomerase G; Cyclophilin G; Peptidyl-prolyl isomerase G; Rotamase G; Clk-associating RS-cyclophilin; CARS-cyclophilin; CARS-Cyp; SR-cyclophilin; SR-cyp; SRcyp; CASP10; CYP; MGC133241.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGIKVQRPRC FFDIANNQP AGRVVFELFS DVCPKTCENF RCLCTGEKGT GKSTQKPLHY KSCLFHRVVK DFMVQGGDFS EGNGRGGESI YGGFFEDES AVKHNKEFLL SMANRGKDTN GSQFFITTKP TPHLDGHHVV FGQVISGQEV VREIENQKTD AASKPFAEVR ILSCG.		
Formulation	Cyclophilin-G solution containing 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.		

Introduction

Cyclophilin-G 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. PPIG catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and is involved in the folding, transport, and assembly of proteins. PPIG is localized to the nuclear speckles, a nuclear compartment rich in splicing factors, and cooperates with the splicing factors SC35 and pinin. Cyclophilin-G also takes part in the regulation of pre-mRNA splicing.

Biological Activity

Specific activity is > 200 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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

Cyclophilin-G Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 195 amino acids (1-175 a.a.) and having a molecular mass of 21.6 kDa. Cyclophilin-G is fused to a 20 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

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