

**ChemWhat Technical Data Sheet (TDS)**

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<b>Catalog Number:</b>	606-07
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 18.9 kDa, a single non-glycosylated polypeptide chain containing 178 amino acids.
<b>Quantity:</b>	10µg /50µg /500µg
<b>AA Sequence:</b>	CSKGSGBPSS SSSSGNPLVY LDVDANGKPL GRVVLELKAD VVPKTAENFR ALCTGEKGFY YKGSTFHRVI PSFMCQAGDF TNHNGTGGKS IYGSRFPDEN FTLKHVGPV LSMANAGPNT NGSQFFICTI KTDWLDGKHV VFGHVKEGMD VVKKIESFGS KSGRTSKKIV ITDCGQLS
<b>Purity:</b>	> 95 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Data Not Available.
<b>Physical Appearance:</b>	Sterile colorless liquid.
<b>Formulation:</b>	Supplied as a 0.2 µm filtered solution in PBS, pH7.4, with 1 mM DTT, 10 % glycerol.
<b>Endotoxin:</b>	Less than 0.1 EU/µg of rHuCyP-D as determined by LAL method.
<b>Stability &amp; Storage:</b>	Use a <b>manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 6 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 3 months, -20 to -70 °C under sterile conditions after opening.</li></ul>
<b>Usage:</b>	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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***Human Cyclophilin D***

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.