

## PRODUCT SPECIFICATIONS

<b>Name</b>	Recombinant PCT antigen, 100 µg
<b>Description</b>	Recombinant human procalcitonin (PCT) protein with a C-terminal histidine tag. Predicted molecular weight: 14 kDa.
<b>Amino acid sequence</b>	MAPFRSALESSPADPATLSEDEARLLLLAALVQNYVQMKASELEQEQEREGSSLDSPRSKRCGNLSTC MLGTYTQDFNKFHFTFPQTAIGVGAPGKKRDMSSDLERDHRPHVSM PQNANLEHHHHHH
<b>Production host</b>	<i>Escherichia coli (E.coli)</i>
<b>Product code</b>	610080
<b>Product formulation</b>	Lyophilized from 0.2 µm filtered solution
<b>Product buffer</b>	50 mM Tris-HCl, pH 7.5; 150 mM NaCl; containing 6 % sucrose as stabilizer
<b>Reconstitution</b>	Reconstitute lyophilized protein with 200 µl of deionized water
<b>Shelf life and storage</b>	Shelf life unspecified, storage at 2-8 °C
<b>Analyte description</b>	Procalcitonin (PCT) is a precursor protein of the hormone calcitonin, produced by the thyroid gland. It is a 116 amino acid protein that is cleaved intracellularly to form three peptides: N-terminal procalcitonin, calcitonin, and katacalcin. In healthy individuals, only the calcitonin polypeptide is secreted into the bloodstream, and PCT serum levels are very low. However, in patients with systemic infections, and especially sepsis, serum PCT levels rise rapidly.
<b>Product concentration</b>	0.5 mg/ml when reconstituted with 200 µl of deionized water
<b>Purity</b>	SDS-PAGE 
<b>Reactivity with MedixMABs</b>	Anti-h PCT clone 4001: + Anti-h PCT clone 4003: + Anti-h PCT clone 4004: + Anti-h PCT clone 4005: + Anti-h PCT clone 4006: +

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