

PRODUCT SPECIFICATIONS

Name	Recombinant PCT antigen, 100 µg
Description	Recombinant human procalcitonin (PCT) protein with a C-terminal histidine tag. Predicted molecular weight: 14 kDa.
Amino acid sequence	MAPFRSALESSPADPATLSEDEARLLLLAALVQNYVQMKASELEQEQEREGSSLDSPRSKRCGNLSTC MLGTYTQDFNKFTFPQTAIGVGAPGKKRDMSSDLERDHRPHVSM PQNANLEHHHHHH
Production host	<i>Escherichia coli (E.coli)</i>
Product code	610080
Product formulation	Lyophilized from 0.2 µm filtered solution
Product buffer	50 mM Tris-HCl, pH 7.5; 150 mM NaCl; containing 6 % sucrose as stabilizer
Reconstitution	Reconstitute lyophilized protein with 200 µl of deionized water
Shelf life and storage	Shelf life unspecified, storage at 2-8 °C
Analyte description	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.
Product concentration	0.5 mg/ml when reconstituted with 200 µl of deionized water
Purity	SDS-PAGE 
Reactivity with MedixMABs	Anti-h PCT 4003: + Anti-h PCT 4004: + Anti-h PCT 4005: + Anti-h PCT 4006: + Anti-h PCT 4008: + Anti-h Calcitonin 4050: - Anti-h Calcitonin 4051: +

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