

Procalcitonin (PCT) Recombinant Protein | PCT recombinant protein

Recombinant Human Procalcitonin (PCT) Protein

CATALOG #
AAA55763

HOST
E. coli

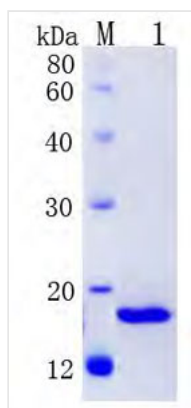
PRODUCT SYNONYMS

Procalcitonin (PCT); Recombinant Human Procalcitonin (PCT) Protein; ET1; PPET1; Preproendothelin-1; Big endothelin-1; Pro-Calcitonin; PCT recombinant protein

PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	> 90 % as determined by SDS-PAGE.
Form/Format	The purified protein was Lyophilized from sterile PBS (58 mM Na ₂ HPO ₄ , 17 mM Na ₂ HPO ₄ , 68 mM NaCl, pH 7.0), 5 % trehalose and 5 % mannitol are added as protectants before lyophilization.
Sequence Positions	26-116 AA
Sequence	APFRSALESS PADPATLSED EARLLLAALV QDYVQMKASE LEQEQEREGRS SLDSPRSKRC GNLSTCMLGT YTQDFNKFHT FPQTAIGVGA P
Source	Human
Protein Residues	with N-terminal 6*His-tag.
Usage	PCT Protein - Centrifuge the standard vial at 6000-10000rpm for 30s. Reconstitute at 1 mg/mL in 50 ?L sterile water (short-term storage) or 50 uL 50% glycerol solution (longer-term storage). Swirl or mix gently to insure complete and homogeneous solubilization.
Preparation and Storage	Storage: Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Stability: The recombinant protein is stable for up to 12 months from date of receipt at -80°C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PCT recombinant protein	Procalcitonin (PCT) is a 116 amino acid residue peptide with molecular weight of about 13 kDa. PCT itself has no known hormonal activity. PCT belongs to a group of related proteins including calcitonin gene-related peptides I and II, amylin, adrenomedullin and calcitonin (CAPA peptide family). PCT, like other peptides of CAPA family, appears from the common precursor pre-procalcitonin consisting of 141 amino acids by removal of 25 amino acids from the N-terminus. PCT undergoes successive cleavages to form three molecules: N-terminal fragment (55 a.a.), calcitonin (32 a.a.) and katacalcin (21 a.a.). Under normal metabolic conditions, PCT is only present in the C cells of the thyroid gland. In bacterial infection and sepsis, however, intact PCT is found in the blood and, more importantly, its level is related to the severity of bacterial sepsis. Today, PCT is considered to be one of the earliest and most specific markers of sepsis.
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NCBI AND UNIPROT INFORMATION

UniProt Accession #	P01258
Molecular Weight	Predicted MW: 16 kDa Observed MW: 16 kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/procalcitonin-pct-recombinant-protein-e-coli/55763>