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rHu CALCA | Procalcitonin (PCT) protein, N-His

Catalog Number:	bs-41144P
Concentration:	Lot depend
AA Seq:	26-141/141
Predicted MW:	13 kDa
Detected MW:	17 kDa
Tags:	N-His
Activity:	Not tested
Endotoxin:	Not analyzed
Purity:	>90% as determined by SDS-PAGE
Purification:	AC
Form:	Lyophilized or Liquid
Storage:	Lyophilized from 0.22 um filtered solution in PBS (pH=7.4). Normally 5% trehalose is added as protectant before Lyophilization. Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.
Background:	Procalcitonin (PCT) is a peptide precursor of the hormone calcitonin, the latter being involved with calcium homeostasis. It arises once preprocalcitonin is cleaved by endopeptidase. It is composed of 116 amino acids and is produced by parafollicular cells (C cells) of the thyroid and by the neuroendocrine cells of the lung and the intestine.

VALIDATION IMAGES

The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.

PRODUCT SPECIFIC PUBLICATIONS

[IF=16] Peng Xu. et al. Unraveling the Proximity Effects of a Co–P Dual Site in Phosphorus-Coordinated Cobalt Single-Atom Nanozymes. ACS NANO. 2025;19(49):41911–41922 Other ; . 41339271

[IF=15.1] Bo Liu. et al. Two strategies for rapid and sensitive detection of procalcitonin using carbon dots-encapsulated nanocapsule and magnetic carbon dots as coupled labels. CHEM ENG J. 2023 Sep;472:145038 Other ; . 10.1016/j.cej.2023.145038

[IF=8.5] Bo Liu. et al. Synergistic dual-strategy immunoassays using carbon dots@MOF enable ultrasensitive procalcitonin stratification. INT J BIOL MACROMOL. 2025 Dec;334:149032 ; . 41242452

[IF=7.7] Zhongyi Xu. et al. A microchannel ionic current assay for rapid and sensitive procalcitonin detection via immune interception. SENSOR ACTUAT B-CHEM. 2025 Dec;444:138507 ; . 10.1016/j.snb.2025.138507

[IF=6.408] Qin, Dongmiao. et al. Construction of efficient electrochemiluminescence resonance energy transfer sensor based on SnO2/SnS2QDs-Ru@IRMOF-3 composite for sensitive detection of procalcitonin. MICROCHIM ACTA. 2022 Nov;189(11):1-15 Other ; Other . 36269425