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Datasheet for 009-001-W14-0002

rHuman Procalcitonin Protein

Overview

Description:	Human Procalcitonin Recombinant Protein - 009-001-W14-0002
Item No.:	009-001-W14-0002
Size:	2 µg
Applications:	SDS-PAGE
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Procalcitonin is a precursor of the peptide hormone called calcitonin. Procalcitonin is mainly produced by the C cells of the thyroid and certain endocrine cells of the lung. Under normal expression conditions, procalcitonin is immediately cleaved into three specific fragments, an N terminal residue, calcitonin and katacalcin. Levels of unprocessed procalcitonin have been shown to rise significantly after bacterial infection, trauma or shock. Recombinant human Procalcitonin is a non-glycosylated protein, containing 116 amino acids, with a molecular weight of 12.8 kDa.
Synonyms:	Calcitonin carboxyl-terminal peptide (CCP), PCT, PDN-21
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	CALCA
Purity/Specificity:	procalcitonin purity was determined to be greater than 97% as determined by HpLC and by reducing and non-reducing SDS-pAGE.
Relevant Links:	• UniProtKB - P01258

Application Details

Tested Applications:	SDS-PAGE
Application Note:	Procalcitonin Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Procalcitonin in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. Biologic Activity: Activity is tested using Biomerieux reagents on the Min-Vidas at 80 ng/mL, with a typical recovery of 80%.

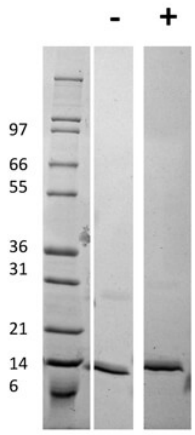
Formulation

Physical State:	Lyophilized
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	2µl (2-20µl)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

SDS-PAGE of Human Procalcitonin Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human PDGF-BB in non-reducing conditions (-). Lane 3: 1 µg Human PDGF-BB in reducing conditions (+). Human Procalcitonin has a predicted MW of 12.8 kDa..

Disclaimer

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