

Recombinant Mouse Procalcitonin protein ab203548

1 Image

Description	
Product name	Recombinant Mouse Procalcitonin protein
Purity	> 94 % Densitometry.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	<u>P70160</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	MKHHHHHHAS VPLRSILESS PGMATLSEEE VRLLAALVQD YMQMKARELE QEEEQEAEGS SLDSPRSKRC GNLSTCMLGT YTQDLNKFHT FPQTSIGVEA PGKKRDVAKD LETNHQSHFG N
Predicted molecular weight	14 kDa including tags
Amino acids	26 to 136
Tags	His tag N-Terminus
Additional sequence information	This is the full length protein without the signal peptide.

Specifications	
Our Abpromise guarantee covers the use of ab203548 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
Applications	Western blot Mass Spectrometry SDS-PAGE ELISA
Mass spectrometry	LC-MS/MS
Form	Lyophilized

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -80°C. Avoid freeze / thaw cycle.

Constituents: 0.24% Tris buffer, 0.29% Sodium chloride

Reconstitution

Add 200 µl of deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

General Info

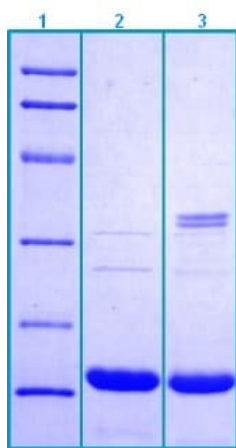
Relevance

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.

Cellular localization

Secreted

Images



14% SDS-PAGE separation of ab203548.

1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa

2. Reduced and heated sample, 2.5 µg / lane

3. Non-reduced and non-heated sample, 2.5 µg / lane

SDS-PAGE - Recombinant Mouse Procalcitonin
protein (ab203548)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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