

Product name

Catalog

number

Uniprot ID

Human PCT

SIL-protein

PC675621

P01258

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Product description

Procalcitonin (PCT) is a peptide precursor of the hormone calcitonin. It consists of 116 amino acids. Labelled PCT is a recombinant protein, stable isotope labelled (SIL), designed for use as an internal standard for quantitative analysis of PCT by mass spectrometry (MS).

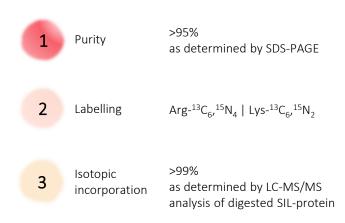
Synonyms: Calcitonin, Katalcin

Protein sequence

APFRSALESSPADPATLSEDEARLLLAALVQDYVQMKASELEQEQEREGSSLDSPRSKRCGNLSTCMLGTYTQDFNKFHTFPQTAIGVGAPGK KRDMSSDLERDHRPHVSMPQNAN

Product features and protocols

Key features



Other features

| Predicted MW | 12.8 kDa |
|-------------------|---|
| Expression System | E.coli |
| Purification Tag | No tag |
| Protein content | Determined by BCA assay with BSA as standard |
| Formulation | Lyophilized from 20 mM Tris pH=7.6 ; 0.1 M NaCl buffer |

Product preparation

For product preparation we recommend the following steps:

- 1. Briefly centrifuge the tube before opening
- Reconstitute by adding the appropriate volume of ultrapure water for a final concentration of 200 μg/ml (e.g. 50 μl for 10 μg or 250 μl for 50 μg conditioning)
- 3. Vortex gently to insure complete dissolution
- 4. Wait 15 minutes at room temperature before proceeding further
- 5. Vortex gently again and centrifuge briefly

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Product storage

The product is lyophilized and shipped at room temperature. **Store at -80 °C upon receipt.**

After reconstitution, the protein can be preserved at 4° C for a few weeks.

Avoid multiple freeze-thaw cycles



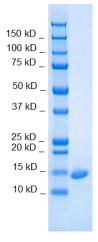
How to use our product

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SIL proteins allow to overcome the process variability since they are added at the very beginning of a sample preparation. This has potential positive impact on your analyte quantification, especially if the analyte interacts with other species commonly present within the matrix (1).



Supporting information



SDS-PAGE gel analysis of PROCALCITONIN protein in Reduced/Heated conditions (RH) and tained with Coomassie blue.

References

1. G.Picard, D. Lebert, et al. PSAQ standards for accurate MS-based quantification of proteins: from the concept to biomedical applications, J. Mass Spectrom. 2012, 47, 1353-1363

The product is intended for research use only. Not for diagnostic or therapeutic use.

Legal

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