

C-Peptide, dog

Chemical Properties

| | |
|-------------------|--|
| CAS No.: | 39016-05-2 |
| Formula: | C137H225N37O49 |
| Molecular Weight: | 3174.47 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

| | |
|-------------|---|
| Description | C-Peptide, dog is a component of proinsulin, released from pancreatic beta cells into blood together with insulin. The C-peptide of proinsulin is important for the biosynthesis of insulin but has for a long time been considered to be biologically inert. |
| In vitro | C-Peptide, dog is a component of proinsulin, released from pancreatic beta cells into blood together with insulin[1]. C-Peptide is used as a marker of insulin secretion[2]. |

Solubility Information

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|------------|---|
| Solubility | H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|----------|----------|
| 1 mM | 0.315 mL | 1.575 mL | 3.15 mL |
| 5 mM | 0.063 mL | 0.315 mL | 0.63 mL |
| 10 mM | 0.032 mL | 0.158 mL | 0.315 mL |
| 50 mM | 0.006 mL | 0.032 mL | 0.063 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Kawanishi K, et al. Immunoreactive dog C-peptide level in the pancreatic vein. Horm Metab Res. 1980 Dec;12(12):660-4.

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