
Product Data Sheet

Product Name: C-telopeptide

Cat. No.: GC30509

Chemical Properties

Cas. No. 162929-64-8

SMILES Glu-Lys-Ala-His-Asp-Gly-Gly-Arg

Formula $C_{34}H_{56}N_{14}O_{13}$ M.Wt 868.9

Solubility Soluble in Water Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

C-telopeptide is the cross-linked C-telopeptide of type I collagen^[1]. During bone resorption, C-telopeptide is degraded by cathepsin K to cleave serum s-NTX from the amino (N)-terminal end and C-telopeptide from the carboxy (C)-terminal end. s-NTX and C-telopeptide make their way into the circulation, where their concentration provides information regarding the level of ongoing bone resorption^[2]. C-telopeptide is a reference marker of bone resorption, which enhances understanding of the clinical utility of bone turnover markers (BTM)^[2-3].

References:

[1] Rathnayake H, Lekamwasam S, Wickramatilake C, De Zoysa E, Lenora J. Age-related trends and reference intervals of cross-linked C-telopeptide of type I collagen and procollagen type I N-propeptide from a reference population of Sri Lankan adult women. *Arch Osteoporos*. 2021;16(1):164.

[2] Bauer D, Krege J, Lane N, et al. National Bone Health Alliance Bone Turnover Marker Project: current practices and the need for US harmonization, standardization, and common reference ranges. *Osteoporos Int*. 2012;23(10):2425-2433.

Caution: Product has not been fully validated for medical applications. For research use only.

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[3] Comparison of two automated assays of BTM (CTX and P1NP) and reference intervals in a Danish population.

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