

Product Data Sheet

Product Name: CMF9
Cat. No.: GC81342

Chemical Properties

Cas. No.

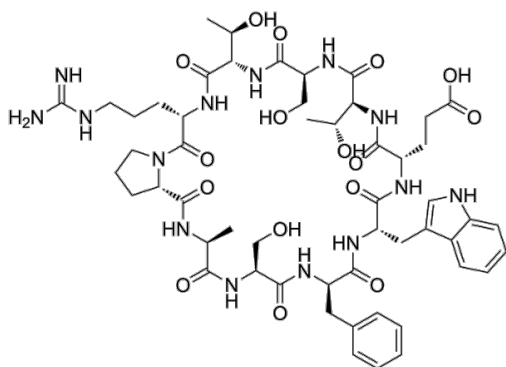
Formula $C_{53}H_{74}N_{14}O_{16}$ M.Wt 1163.24

Solubility H_2O : 20 mg/mL (17.19 mM; Need ultrasonic) Storage Sealed storage, away from moisture

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

CMF9, a cyclic peptide molecule, is an inhibitor of the SMAD2-SMAD4 interaction. CMF9 effectively blocks the formation of the heterodimeric complex of SMAD2 and SMAD4 by inhibiting the phosphorylation of SMAD2. CMF9 has no effect on the phosphorylation of SMAD3 or SMAD1/5/8. CMF9 downregulates the expression of fibrotic markers α -SMA and COL1A1. CMF9 exhibits potent anti-fibrotic effects in mouse models by promoting the degradation of pathological extracellular matrix (ECM) and inhibiting inflammation. CMF9 can be used for the study of liver fibrosis [1].

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

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References:

[1]. Cheng W, et al. Discovery of Novel Cyclic Peptides as SMAD2-SMAD4 Interaction Inhibitors for the Treatment of Hepatic Fibrosis. J Med Chem. 2025 May 22;68(10):9958-9972.

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