
Product Data Sheet

Product Name: CCK (27-33) (non-sulfated)

Cat. No.: GC18384

Chemical Properties

Cas. No. 47910-79-2

Chemical Name L-tyrosyl-L-methionylglycyl-L-tryptophyl-L-methionyl-L- α -aspartyl-L-phenylalaninamideSMILES NC([C@H](CC1=CC=CC=C1)NC([C@H](CC(O)=O)NC([C@H](CCSC)NC([C@H](CC2=CNC3=C2C=CC=C3)NC(CNC([C@H](CCSC)NC([C@H](CC4=CC=C(C=C4)O)N)=O)=O)=O)=O)=O)=O)=OFormula C₄₅H₅₇N₉O₁₀S₂ M.Wt 948.1

Solubility Formic Acid: 1 mg/ml 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**

CCK (27-33) is a C-terminal fragment of CCK, a peptide hormone found in the intestine and brain that stimulates digestion, mediates satiety, and is involved in anxiety. Non-sulfated CCK (27-33) inhibits binding of [³H]naloxone in rat cerebellum membranes (IC₅₀ = 4 μ M) and inhibits electrically-stimulated contraction of isolated guinea pig ileum (IC₅₀ = 17 μ M), an effect that can be reversed by naloxone. Unlike sulfated CCK (27-33), the non-sulfated form does not reduce exploratory behavior in mice when administered at doses up to 1 μ Mol/kg.

References:

[1]. Raybould, H.E., and Lloyd, K.C. Integration of postprandial function in the proximal gastrointestinal tract. Role of CCK and sensory pathways Ann. N.Y. Acad. Sci. 713(1), 143-156 (1994).

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

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- [2]. Ondetti, M.A., Plu??ec, J., Sabo, E.F., et al. Synthesis of cholecystokinin-pancreozymin. I. The C-terminal dodecapeptide J. Am. Chem. Soc. 92(1), 195-199 (1970).
- [3]. Schiller, P.W., Lipton, A., Horrobin, D.F., et al. Unsulfated C-terminal 7-peptide of cholecystokinin: A new ligand of the opiate receptor Biochem. Biophys. Res. Commun. 85(4), 1332-1338 (1978).
- [4]. Crawley, J.N., St-Pierre, S., and Gaudreau, P. Analysis of the behavioral activity of C- and N-terminal fragments of cholecystokinin octapeptide J. Pharmacol. Exp. Ther. 230(2), 438-444 (1984).

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