

Product Data Sheet

Cat # RP-1498

Sinicalide

Size: 1 mg

Sinicalide corresponds to the C-terminal octapeptide of cholecystokinin (CCK) which acts on receptors within the gallbladder wall causing it to contract.

Cholecystokinin (CCK) is a hormone originally isolated from porcine intestinal mucosa and described as a linear 33-amino acid peptide containing a sulfated tyrosine, which is essential for its biological activity. It has been found in mammals in both the digestive tract and the central nervous system. Among its multiple biological functions, this hormone stimulates pancreatic exocrine secretion, gallbladder contraction, and intestine motility and may also act as a neurotransmitter/neuromodulator in the central nervous system.

Source: Sinicalide also called CCK-8 has a molecular formula of $C_{49}H_{62}N_{10}O_{16}S_3$, H-Asp-Tyr(SO₃H)-Met-Gly-Trp-Met-Asp-Phe-NH₂ having a Mw of 1143.29 Dalton. The Sinicalide was lyophilized from a concentrated (1 mg/ml) solution with no additives.

Application and Suggested Dilution: It is recommended to reconstitute the lyophilized Sinicalide in sterile 18MQ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Greater than 98.0% as determined by RP-HPLC Users must optimize concentration and conditions for each assay.

Storage and Stability: Lyophilized Sinicalide although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCK-8 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 µl water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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