

## Sincalide

**Description:** Sincalide also called CCK-8 has a molecular formula of C<sub>49</sub>H<sub>62</sub>N<sub>10</sub>O<sub>16</sub>S<sub>3</sub>, H-Asp-Tyr(SO<sub>3</sub>H)-Met-Gly-Trp-Met-Asp-Phe-NH<sub>2</sub> having a Mw of 1143.29 Dalton.

Catalog #: HOPS-281

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

For research use only.

**Purity:** Greater than 98.0% as determined by RP-HPLC.

**Formulation:**

The Sincalide was lyophilized from a concentrated (1 mg/ml) solution with no additives.

**Stability:**

Lyophilized Sincalide 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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Sincalide in sterile 18M-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**

Sincalide 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.

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