
Product Data Sheet

Product Name: Motilin, canine (Motilin (canine))

Cat. No.: GC31500

Chemical Properties

Cas. No. 85490-53-5

SMILES Phe-Val-Pro-Ile-Phe-Thr-His-Ser-Glu-Leu-Gln-Lys-Ile-Arg-Glu-Lys-Glu-Arg-Asn-Lys-Gly-Gln

Formula $C_{120}H_{194}N_{36}O_{34}$ M.Wt 2685.05Solubility H_2O : 100 mg/mL (37.24 mM; Need ultrasonic); DMSO : 20 mg/mL (7.45 mM; Need ultrasonic) Storage Store at $-20^{\circ}C$ General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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**

Motilin, canine is a 22-amino acid peptide. Motilin is a potent agonist for gastrointestinal smooth muscle contraction.

Motilin is a potent agonist for gastrointestinal smooth muscle contraction and has been proposed to regulate the onset of phase III of the migrating motor complex (MMC) in dogs and humans. In the dog, but not in the human, Motilin also contracts the gallbladder and sphincter of Oddi and induces pancreatic secretion. Motilin activates L-type Ca^{2+} channel (IcaL) in canine jejunal circular smooth muscle cells through a G protein-coupled mechanism. At $1\ \mu M$, Motilin increases IcaL in canine jejunal circular smooth muscle cells by 43 ± 20 [1].

[1]. Farrugia G, et al. Motilin and OHM-11526 activate a calcium current in human and canine jejunal circular smooth muscle. Am J Physiol. 1997 Aug;273(2 Pt 1):G404-12.

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

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