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Inhibitors, Agonists, Screening Libraries

Motilin Receptor

MLNR

Motilin receptor is a G protein-coupled receptor that binds motilin. Motilin in turn is an intestinal peptide that stimulates contraction of gut smooth muscle. The main function of motilin is to increase the migrating myoelectric complex component of gastrointestinal motility and stimulate the production of pepsin. Motilin is called "housekeeper of the gut" because it improves peristalsis in the small intestine and clears out the gut to prepare for the next meal. A high level of motilin secreted between meals into the blood stimulates the contraction of the fundus and antrum and accelerates gastric emptying. It then contracts the gallbladder and increases the squeeze pressure of the lower esophageal sphincter. Other functions of motilin include increasing the release of pancreatic polypeptide and somatostatin.

Motilin Receptor Agonists & Antagonists

ANQ-11125

Cat. No.: HY-P1233

ANQ-11125 is a potent and selective antagonist of **motilin**, with the pK_d of 8.24. ANQ-11125 blocks motilide-induced contractions in vitro in the rabbit.

FVFIFTYGELQRLQ

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ANQ-11125 TFA

Cat. No.: HY-P1233A

ANQ-11125 TFA is a potent and selective antagonist of **motilin**, with the pK_d of 8.24. ANQ-11125 TFA blocks motilide-induced contractions in vitro in the rabbit.

FVFIFTYGELQRLQ (TFA salt)

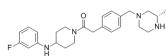
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Camicalin

(GSK962040)

Cat. No.: HY-10922

Camicalin (GSK962040) is a small molecule, selective motilin receptor agonist with pEC_{50} of 7.9.

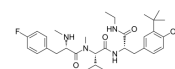


Purity: 95.82%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

MA-2029

Cat. No.: HY-107642

MA-2029 is a selective, orally active, and competitive **motilin receptor** antagonist (IC_{50} =4.9 nM). MA-2029 is selective for the motilin receptor over various other receptors and ion channels.



Purity: >99.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg

Motilin (26-47), human, porcine

Cat. No.: HY-P1037

Motilin (26-47), human, porcine is an endogenous motilin receptor ligand with K_i and EC_{50} of 2.3 nM and 0.3 nM in a Chinese hamster ovary cell line.

FVPIFTYGELQRMQEKERNKGG

Purity: 95.82%
Clinical Data: No Development Reported
Size: 500 µg, 1 mg, 5 mg