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产品名称: **Motilin porcine**

产品别名: **Motilin (26-47), human, porcine ; 胃动素 (人类, 猪)**

生物活性:	
Description	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.
IC₅₀ & Target	EC ₅₀ : 0.3 nM (motilin receptor, Chinese hamster ovary cell)[1] K _i : 2.3 nM (motilin receptor, Chinese hamster ovary cell)[1]
In Vitro	[Bpa ¹ ,Ile ¹³]motilin is a full agonist at the motilin receptor that increases intracellular calcium in a concentration-dependent manner ($EC_{50} = 1.5 \pm 0.4$ nM)[1]. Motilin binds with high affinity ($IC_{50} 0.7 \pm 0.2$ nM) to receptors on smooth muscle cells. Motilin selectively activates G(q) and G(13), stimulates G alpha(q)-dependent phosphoinositide (PI) hydrolysis and 1,4,5-trisphosphate (IP(3))-dependent Ca ²⁺ release, and increases cytosolic free Ca ²⁺ . Motilin induces a biphasic, concentration-dependent contraction ($EC_{50} = 1.0 \pm 0.2$ nM), consisting of an initial peak followed by a sustained contraction[2].
References	[1]. Coulie B, et al. Identification of peptide ligand-binding domains within the human motilin receptor using photoaffinity labeling. J Biol Chem. 2001 Sep 21;276(38):35518-22. Epub 2001 Jul 18. [2]. Huang J, et al. Signaling pathways mediating gastrointestinal smooth muscle contraction and MLC20 phosphorylation by motilin receptors. Am J Physiol Gastrointest Liver Physiol. 2005 Jan;288(1):G23-31.

源叶生物