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**Product Data Sheet**

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Product Name: Motilin (porcine)

Cat. No.: GC18349

**Chemical Properties**

Cas. No. 9072-41-7

Chemical Name motilin (swine)

SMILES N/A

Formula  $C_{120}H_{188}N_{34}O_{35}S$  M.Wt 2699.1

Solubility DMF: 25 mg/ml, DMSO: 25 mg/ml, Ethanol: slightly, PBS (pH 7.2): 5 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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 is a polypeptide hormone that stimulates gastric motility through release in the small intestine and into the general circulation during fasting. In isolated rabbit duodenal segments, porcine motilin (10 nM-1 μM) induced phasic contractions and acetylcholine release from enteric neurons (EC<sub>50</sub> = 2.5 nM). Formulations containing motilin are used to increase gastrointestinal motility in patients with diabetic gastroparesis, often in combination with erythromycin, an antibiotic and agonist at the motilin receptor.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA