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产品名称: 7-氧代-N-[3(R)-奎宁环基]-4,7-二氢噻吩并[3,2-B]吡啶-6-甲酰胺盐
酸盐

产品别名: Pumosetrag Hydrochlorid; MKC-733; DDP-733

生物活性:				
Description	Pumosetrag Hydrochloride (MKC-733; DDP-733) is an orally available 5-HT3 partial agonist developed for the treatment of irritable bowel syndrome and gastroesophageal reflux disease.			
IC ₅₀ & Target	5-HT3 ^[1]			
In Vivo	Pumosetrag displays both regional and species specificities. Pumosetrag has a lower efficacy than 5-HT in the rat jejunum, ileum and distal colon; however, it has similar efficacy and potency to 5-HT in the rat proximal colon. The activity profile of Pumosetrag is different in the guinea pig intestine where it exhibits greater potency and efficacy than 5-HT in all regions. Pumosetrag shows little to no response in the regions of the mouse intestine. Responses to Pumosetrag in the rat and guinea pig tissues are inhibited by ondansetron, confirming its action on 5-HT(3) receptors[1]. Pumosetrag delays liquid gastric emptying in association with relaxation of the proximal stomach, stimulates fasting antroduodenal migrating motor complex activity and accelerates small intestinal transit[2].			
Solvent&Solubility	In Vitro: DMSO : 30 mg/mL (88.28 mM; Need ultrasonic and warming)			
		Solvent Concentration	Mass Concentration	
	Preparing	1 mM	2.9426 mL	14.7128 mL
	Stock Solutions	5 mM	0.5885 mL	2.9426 mL
		10 mM	0.2943 mL	1.4713 mL
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。				
References	[1]. Chetty N, et al. Effects of the novel 5-HT3 agonist MKC-733 on the rat, mouse and guinea pig digestive tract. Pharmacology. 2008;81(2):104-9. Epub 2007 Oct 19. [2]. Coleman NS, et al. Effect of a novel 5-HT3 receptor agonist MKC-733 on upper gastrointestinal motility in humans. Aliment Pharmacol Ther. 2003 Nov 15;18(10):1039-48.			