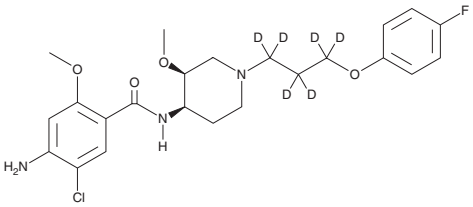
PRODUCT INFORMATION

Cisapride-d_6

Item No. 28701

Formal Name:	*rel*-4-amino-5-chloro-N-[1-[(3R,4S)-3-(4-fluorophenoxy)propyl-d_6]-3-methoxy-4-piperidinyl]-2-methoxybenzamide
MF:	$C_{23}H_{23}D_6ClFN_3O_4$
FW:	472.0
Chemical Purity:	≥98% (Cisapride)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_6); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Cisapride-d_6 is intended for use as an internal standard for the quantification of cisapride (Item No. 21657) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Cisapride-d_6 is supplied as a solid. A stock solution may be made by dissolving the cisapride-d_6 in the solvent of choice, which should be purged with an inert gas. Cisapride-d_6 is soluble in methanol, DMSO, and dimethyl formamide.

Description

Cisapride is an agonist of serotonin (5-HT) receptor subtype 5-HT_4 (IC_{50} = 0.483 µM in COS-7 cells expressing the human receptor).[1] It induces relaxation of precontracted isolated rat esophageal thoracic muscularis mucosae preparations (EC_{50} = 102.33 nM). Cisapride (0.5 mg/kg) increases the rate of gastric emptying in rats. It is also a human ether-a-go-go related gene (hERG) channel blocker that binds to hERG channels with an IC_{50} value of less than 1 µM in a fluorescence polarization assay. Formulations containing cisapride have previously been used in the treatment of nocturnal heartburn associated with gastroesophageal reflux disease.

Reference

1. Park, J.S., Im, W., Choi, S., *et al.* Discovery and SAR of N-(1-((substituted piperidin-4-yl)methyl)-3-methoxypiperidin-4-yl)-2-methoxybenzamide derivatives: 5-Hydroxytryptamine receptor 4 agonist as a potent prokinetic agent. *Eur. J. Med. Chem.* **109**, 75-88 (2016).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM