

Product Data Sheet

Product Name: Felcisetrag

Cat. No.: GC63682

Chemical Properties

Cas. No. 916075-84-8

Formula $C_{25}H_{37}N_5O_3$

M.Wt 455.59

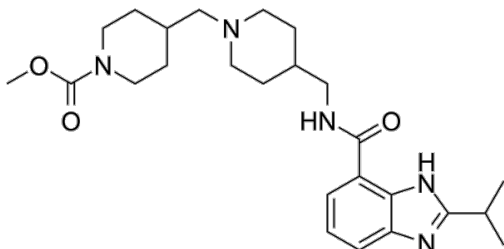
Solubility DMSO : 50 mg/mL (109.75 mM;
ultrasonic and warming and heat to
60°C)

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

Felcisetrag (TD-8954) is an orally active, potent and selective 5-HT₄ receptor agonist with gastrointestinal prokinetic properties. Felcisetrag has high affinity ($pK_i = 9.4$) for human 5-HT₄(c) receptors.

Felcisetrag produces an elevation of cAMP in HEK-293 cells expressing the h5-HT₄(c) receptor ($pEC_{50} = 9.3$), and contracts the guinea pig colonic longitudinal muscle/myenteric plexus preparation

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

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(pEC₅₀ = 8.6). Felcisetrag has moderate intrinsic activity in the vitro assays[1].

Felcisetrag (0.03~3 mg/kg; s.c.) increases the colonic transit of carmine red dye, reducing the time taken for its excretion[1]. Felcisetrag (0.03~10 mg/kg; intraduodenal administration) evokes a dose-dependent relaxation of the esophagus[1]. Felcisetrag (10 and 30 µg/kg; p.o) produces an increase in contractility of the antrum, duodenum, and jejunum[1].

[1]. Beattie DT, et al. The Pharmacology of TD-8954, a Potent and Selective 5-HT(4) Receptor Agonist with Gastrointestinal Prokinetic Properties. *Front Pharmacol.* 2011;2:25.

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