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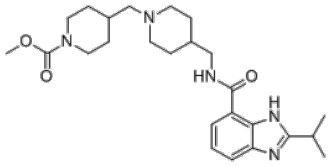
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Felcisetrag
Cat. No.	:	PC-73307
CAS No.	:	916075-84-8
Molecular Formula	:	$C_{25}H_{37}N_5O_3$
Molecular Weight	:	455.603
Target	:	5-HT Receptor
Solubility	:	10 mM in DMSO



Biological Activity

Felcisetrag (TAK-954, TD-8954) is a highly selective and potent **5-HT4** receptor agonist with pKi of 9.4 (human 5-HT4).
Felcisetrag (TAK-954, TD-8954) displays high selectivity (>2,000-fold) over all other 5-HT receptors and non-5-HT receptors, ion channels, enzymes and transporters.
Felcisetrag (TAK-954, TD-8954) produced an elevation of cAMP in HEK-293 cells expressing the h5-HT(4(c)) receptor (pEC=9.3), and contracted the guinea pig colonic longitudinal muscle/myenteric plexus preparation (pEC50=8.6).
Felcisetrag (TAK-954, TD-8954) (0.03-3 mg/kg) increased the colonic transit of carmine red dye, reducing the time taken for its excretion.
Felcisetrag (TAK-954, TD-8954) demonstrated robust in vivo stimulatory activity in the gastrointestinal (GI) tract of guinea pigs, rats, dogs, and humans.

References

Shen F, et al. ***Neuropharmacology***. 2011 Jul-Aug;61(1-2):69-79.

Beattie DT, et al. ***Front Pharmacol***. 2011 May 30;2:25.

Beattie DT, et al. ***Vascul Pharmacol.*** 2013 Jan;58(1-2):150-6.

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