

YM758

## Chemical Properties

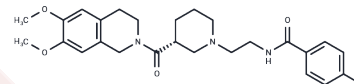
CAS No. : 312752-85-5

Formula: C<sub>26</sub>H<sub>32</sub>FN<sub>3</sub>O<sub>4</sub>

Molecular Weight: 469.55

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	YM758 is an inhibitor of If current channel.
Targets(IC50)	Others,HCN Channel
In vitro	YM758 inhibits rOct1- (IC <sub>50</sub> = 23.8 μM) and hOCT1- (IC <sub>50</sub> = 40.5 μM) mediated [3H]MPP uptake in a concentration-dependent manner. YM758 inhibits OATP1B1-mediated [3H]E217βG uptake in a concentration-dependent manner(IC <sub>50</sub> = 13.0 μM). YM758 shows no inhibitory effect on OATP1B3-mediated [3H]E217βG uptake[1].
In vivo	In tachycardia-induced dogs, YM758 (0.03, 0.1, and 0.3 mg/kg; i.v.) plasma concentrations rapidly decrease with t <sub>1/2</sub> s of 1.62, 4.93, and 1.63 h, respectively. The CL <sub>tot</sub> values are 1.71, 1.69, and 1.48 L/h/kg, and V <sub>dss</sub> values amount to 3.19, 5.78, and 2.94 L/kg accordingly[2]. The radioactivity in the rat eyeballs after dosing <sup>14</sup> C-YM758 is extracted. The radioactivity recovery is 97.1% at 4 h and 67.1% at 24 h. In the eyeball at 4 h after administration, YM758 (the unchanged drug) is the main compound detected (66.7%)[3].

## Solubility Information

Solubility	DMSO: 90 mg/mL (191.67 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1297 mL	10.6485 mL	21.297 mL
5 mM	0.4259 mL	2.1297 mL	4.2594 mL
10 mM	0.213 mL	1.0648 mL	2.1297 mL
50 mM	0.0426 mL	0.213 mL	0.4259 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Umehara K, et al. Hepatic uptake and excretion of (-)-N-{2-[(R)-3-(6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline-2-carbonyl)piperidino]ethyl}-4-fluorobenzamide (YM758), a novel i

Umehara K, et al. Relationship between exposure of (-)-N-{2-[(R)-3-(6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline-2-carbonyl)piperidino]ethyl}-4-fluorobenzamide (YM758), a "funny" i

Umehara K, et al. Investigation of long-term retention of unchanged (-)-N-{2-[(R)-3-(6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline-2-carbonyl)piperidino]ethyl}-4-fluorobenzamide, a novel "funny" i

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