D-3263 hydrochloride

Cat. No.: HY-16162A

CAS No.: 1008763-54-9

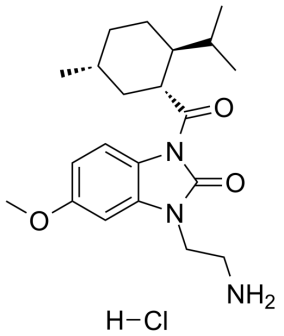
Molecular Formula: $C_{21}H_{32}ClN_3O_3$

Molecular Weight: 409.95

Target: TRP Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 140 mg/mL (341.51 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4393 mL	12.1966 mL	24.3932 mL
	5 mM	0.4879 mL	2.4393 mL	4.8786 mL
	10 mM	0.2439 mL	1.2197 mL	2.4393 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 14 mg/mL (34.15 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 3.5 mg/mL (8.54 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 3.5 mg/mL (8.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

D-3263 hydrochloride is an enteric-coated, orally bioavailable (transient receptor potential melastatin member 8) TRPM8 agonist.

In Vitro

D-3263 hydrochloride binds to and activates TRPM8, which may result in an increase in calcium and sodium entry; the disruption of calcium and sodium homeostasis; and the induction of cell death in TRPM8-expressing tumor cells. D-3263 hydrochloride may decrease dihydrotestosterone (DHT) levels, which may contribute to its inhibitory effects on prostate cancer and BPH[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. enteric-coated TRPM8 agonist D-3263 hydrochloride

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