

Product Data Sheet

Product Name: Tegaserod maleate

Cat. No.: GC17826

Chemical Properties

Cas. No. 189188-57-6

Chemical Name (E)-2-((Z)-(5-methoxy-3H-indol-3-ylidene)methyl)-N'-pentylhydrazinecarboximidamide maleate

SMILES N/C(NN/C=C1C2=CC(OC)=CC=C2N=C/1)=N\CCCCC.OC(/C=C\C(O)=O)=O

Formula $C_{16}H_{23}N_5O \cdot C_4H_4O_4$ M.Wt 417.46

Solubility DMF: 25 mg/ml, DMF:PBS (pH 7.2) (1:3): 0.03 mg/ml, DMSO: 20 mg/ml 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.

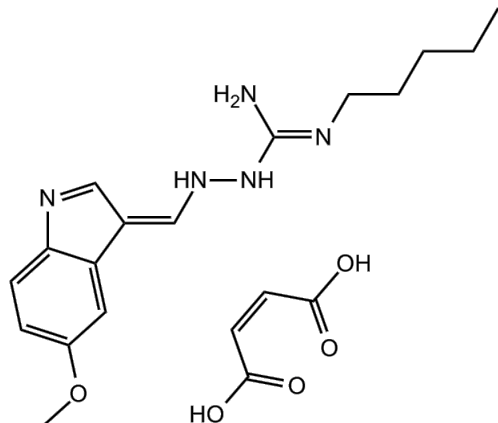
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Tegaserod maleate is a partial agonist of the 5-HT₄ receptor; stimulates the peristaltic reflex and accelerates gastrointestinal transit. IC₅₀ value: Target: 5-HT₄ agonist. In an in vivo model for peripheral nerve regeneration, mice receiving tegaserod at the site of injury showed enhanced recovery compared to control mice receiving vehicle control as evidenced by functional measurements and histology [1]. Treatment with fluoxetine (10 mg · kg⁻¹⁻¹, days 36-42), tegaserod (1 mg · kg⁻¹⁻¹, day 43), or the combination of both, reduced visceral hypersensitivity and plasma 5-HT levels [2]. Intravenous or intraduodenal tegaserod (0.3-1.0 mg.kg⁻¹) had no inhibitory effect on mesenteric and colonic blood flow. Peroral treatment of rats with alosetron or tegaserod for 7 days did not modify mesenteric haemodynamics at baseline and after blockade of nitric oxide synthesis [3].

References:

- [1]. Bushman J, et al. Tegaserod mimics the neurostimulatory glycan polysialic acid and promotes nervous system repair. *Neuropharmacology*. 2014 Apr;79:456-66.
- [2]. Yan C, et al. Effect of the 5-HT₄ receptor and serotonin transporter on visceral hypersensitivity in rats. *Braz J Med Biol Res*. 2012 Oct;45(10):948-54.

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[3]. Painsipp E, et al. Alosetron, cilansetron and tegaserod modify mesenteric but not colonic blood flow in rats. Br J Pharmacol. 2009 Nov;158(5):1210-26.

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