

Product Data Sheet

Product Name: EMA401
Cat. No.: GC19137

Chemical Properties

Cas. No. 1316755-16-4

SMILES O=C([C@H]1N(C(C(C2=CC=CC=C2)C3=CC=CC=C3)=O)CC4=C(C(OCC5=CC=CC=C5)=C(OC)C=C4)C1)O

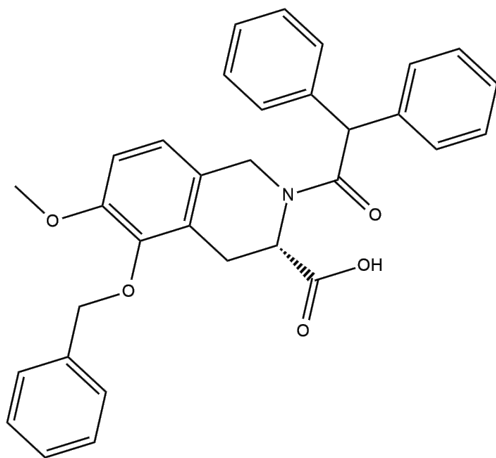
Formula $C_{32}H_{29}NO_5$ M.Wt 507.58

Solubility DMSO : ≥ 34 mg/mL (66.98 mM) 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

EMA401, a highly selective AT₂R antagonist, inhibition of augmented AngII/AT₂R induced p38 and p42/p44 MAPK activation, and hence inhibition of DRG neuron hyperexcitability and sprouting of DRG neurons. target: AT₂R In vivo: AngII induces p38, p42/p44 mitogen activated protein kinase (MAPK) activation, neurite outgrowth in adult rat DRG neurons, and sensitization of adult rat and human DRG neurons that is blocked by EMA401. Inhibits capsaicin responses in cultured hDRG neurons.

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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References:

- [1]. Rice AS et al. EMA401, an orally administered highly selective angiotensin II type 2 receptor antagonist, as a novel treatment for postherpetic neuralgia: a randomised, double-blind, placebo-controlled phase 2 clinical trial. *Lancet*. 2014 May 10;383(9929):1637-47.
- [2]. Anand U et al. Mechanisms underlying clinical efficacy of Angiotensin II type 2 receptor (AT2R) antagonist EMA401 in neuropathic pain: clinical tissue and in vitro studies. *Mol Pain*. 2015 Jun 26;11:38.
- [3]. Rice AS et al. EMA401, an orally administered highly selective angiotensin II type 2 receptor antagonist, as a novel treatment for postherpetic neuralgia: a randomised, double-blind, placebo-controlled phase 2 clinical trial. *Lancet*. 2014 May 10;383(9929):1637-47.

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