

Product Data Sheet

Product Name: Lesogaberan

Cat. No.: GC61624

Chemical Properties

Cas. No. 344413-67-8

SMILES O=P(C[C@H](F)CN)O

Formula C3H9FNO2P

M.Wt 141.08

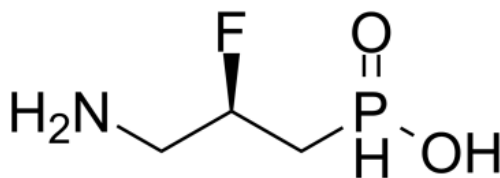
Solubility

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

Lesogaberan (AZD-3355) is a potent and selective GABAB receptor agonist with an EC₅₀ of 8.6 nM for human recombinant GABAB receptors. Binding affinity (K_i) of 5.1 nM and 1.4 μM for rat brain GABAB and GABAA receptors, respectively[1].

Lesogaberan (3-30 nM) enhances human islet cell proliferation in vitro[2]. Cell Proliferation Assay[2]
Cell Line: Human islet cells

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

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Lesogaberan (AZD3355) potently stimulates recombinant human GABAB receptors and inhibits transient lower esophageal sphincter relaxation (TLESR) in dogs, with a biphasic dose-response curve[1]. Oral Lesogaberan (0.08 mg/mL; 48 hours) protects human islet β -cells from apoptosis in islet grafts in mice[2]. Lesogaberan (7 μ mol/kg) shows high oral availability (88% in the dog and 100% in the rat) and relatively low systemic clearance in female SpragueDawley rats[1]. Animal Model: Diabetic NOD/scid mice were implanted with human islets[2]

[1]. Lehmann A, et al. (R)-(3-amino-2-fluoropropyl) phosphinic acid (AZD3355), a novel GABAB receptor agonist, inhibits transient lower esophageal sphincter relaxation through a peripheral mode of action. J Pharmacol Exp Ther. 2009 Nov;331(2):504-12. [2]. Tian J, et al. Repurposing Lesogaberan to Promote Human Islet Cell Survival and β -Cell Replication. J Diabetes Res. 2017;2017:6403539.

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