

Product Data Sheet

Product Name: PF-06305591

Cat. No.: GC31095

Chemical Properties

Cas. No. 1449473-97-5

SMILES CC(C)(C)C1=CC=C(NC([C@H]([C@@H](C)C(N)=O)N)=N2)C2=C1

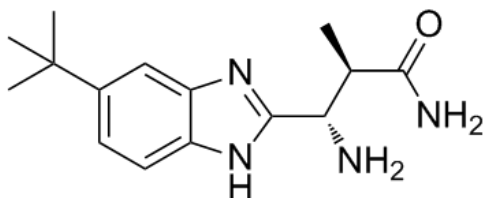
Formula $C_{15}H_{22}N_4O$ M.Wt 274.36

Solubility Soluble in DMSO 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

PF-06305591 is a potent and highly selective voltage gated sodium channel NaV1.8 blocker, with an IC₅₀ of 15 nM. An excellent preclinical in vitro ADME and safety profile[1].

PF-06305591 (compound 9) has a highly attractive profile with respect to NaV selectivity, hERG activity, passive permeability and in vitro metabolic stability[1].

PF-06305591 (compound 9) has good rat bioavailability. PF-06305591 offers the possibility of

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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investigating higher IC₅₀ multiples of Nav1.8 blockade in the clinic, and therefore a more thorough evaluation of the role of NaV1.8 in the treatment of pain[1].

[1]. Brown AD, et al. The discovery and optimization of benzimidazoles as selective NaV1.8 blockers for the treatment of pain. Bioorg Med Chem. 2019 Jan 1;27(1):230-239.

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