

Product Data Sheet

Product Name: PF-04937319

Cat. No.: GC36881

Chemical Properties

Cas. No. 1245603-92-2

SMILES O=C(C1=NC=C(OC2=C3C=C(C)OC3=CC(C(NC4=NC=C(C)N=C4)=O)=C2)C=N1)N(C)C

Formula $C_{22}H_{20}N_6O_4$ M.Wt 432.43

Solubility DMSO : 100 mg/mL (231.25 mM; Need ultrasonic) 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.

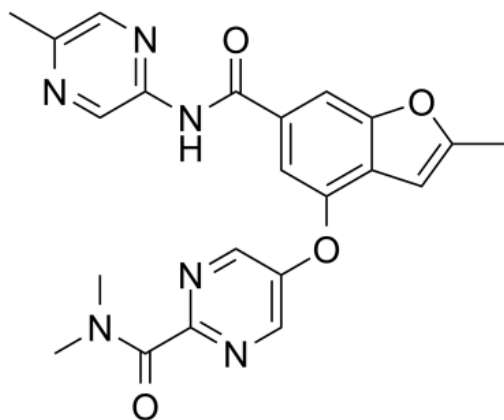
Caution: Product has not been fully validated for medical applications. For research use only.

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

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

Product Data Sheet

Structure



Background

PF-04937319 is a glucokinase activator (GKA) with EC₅₀ value of 154.4 μ M, one of the most promising strategies for the treatment of type 2 diabetes mellitus[1]. PF-04937319 is designed to maintain glucose-lowering efficacy while mitigating the risk of hypoglycaemia observed with many other GKAs[2]. EC₅₀: 154.4 μ M (GSA) (PF-04937319)[1]

[1]. Dzyurkevich MS, et al. Pyridoxine dipharmacophore derivatives as potent glucokinase activators for the treatment of type 2 diabetes mellitus. Sci Rep. 2017 Nov 22;7(1):16072. [2]. Amin NB, et al. Two dose-ranging studies with PF-04937319, a systemic partial activator of glucokinase, as add-on therapy to metformin in adults with type 2 diabetes. Diabetes Obes Metab. 2015 Aug;17(8):751-9.

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