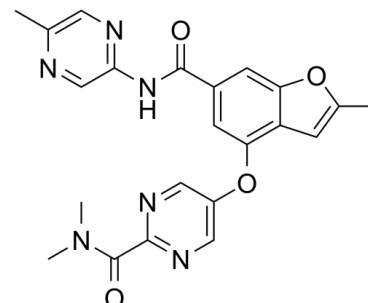


Data Sheet

| | |
|---------------------------|---|
| Product Name: | PF-04937319 |
| Cat. No.: | CS-0028321 |
| CAS No.: | 1245603-92-2 |
| Molecular Formula: | C ₂₂ H ₂₀ N ₆ O ₄ |
| Molecular Weight: | 432.43 |
| Target: | Glucokinase |
| Pathway: | Metabolic Enzyme/Protease |
| Solubility: | DMSO : 100 mg/mL (231.25 mM; Need ultrasonic) |



BIOLOGICAL ACTIVITY:

PF-04937319 is a glucokinase activator (**GKA**) with **EC₅₀** value of 154.4 μM, 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]. IC50 & Target: EC50: 154.4 μM (GSA) (PF-04937319)^[1]

References:

[1]. Dzyurkevich MS, et al. Pyridoxine diparmacophore 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.

CAIndexNames:

2-Pyrimidinecarboxamide, N,N-dimethyl-5-[[[2-methyl-6-[[[5-methyl-2-pyrazinyl)amino]carbonyl]-4-benzofuranyl]oxy]-

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

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

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