

Product Data Sheet

Product Name: BI-2545
Cat. No.: GC60074

Chemical Properties

Cas. No. 2162961-71-7

SMILES O=C(N1C[C@]2([H])[C@H](CNC(C3=CC=C(NN=N4)C4=C3)=O)[C@]2([H])C1)OCC5=CC(C(F)(F)F)=CC(C(F)(F)F)=C5

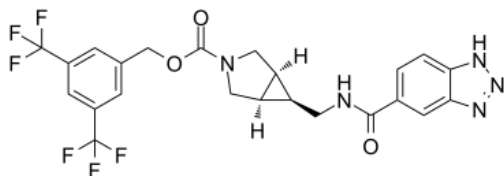
Formula $C_{23}H_{19}F_6N_5O_3$ M.Wt 527.42

Solubility DMSO: 250 mg/mL (474.01 mM) Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

BI-2545 is a potent autotaxin (ATX) inhibitor that significantly reduces LPA, with IC₅₀s of 2.2 nM and 3.4 nM for human ATX and rat ATX, respectively[1].

BI-2545 displays good potency in the LPA and rat whole blood assay with IC₅₀s of 29 nM and 96 nM, respectively[1].

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

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BI-2545 (10 mg/kg; p.o.) has high and sustained in vivo efficacy in reducing LPAs[1]. BI-2545 (10 mg/kg; p.o.) has a half-life of $t_{1/2}=3.4$ hours[1]. Animal Model: Rat[1]

[1]. Kuttruff, C. A., et al. Discovery of BI-2545: A Novel Autotaxin Inhibitor That Significantly Reduces LPA Levels in Vivo. ACS Medicinal Chemistry Letters, 8(12), 1252-1257.

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