

Product Data Sheet

Product Name: Lifirafenib

Cat. No.: GC60992

Chemical Properties

Cas. No. 1446090-79-4

SMILES O=C1NC2=NC=CC(OC3=CC=C(O[C@@]4([H])[C@]5([H])[C@@H]4C6=NC7=CC=C(C(F)(F)F)C=C7N6)C5=C3)=C2CC1

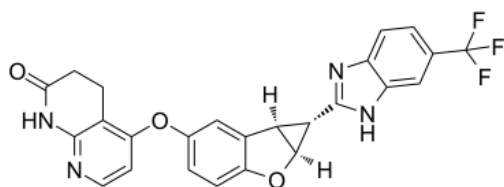
Formula $C_{25}H_{17}F_3N_4O_3$ M.Wt 478.42

Solubility DMSO: ≥ 100 mg/mL (209.02 mM) 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

Lifirafenib (BGB-283) is a novel and potent Raf Kinase and EGFR inhibitor with IC_{50} values of 23 and 29 nM for recombinant BRAFV600E and EGFR, respectively.

Lifirafenib (BGB-283) potently inhibits BRAFV600E-activated ERK phosphorylation and cell proliferation. It demonstrates selective cytotoxicity and preferentially inhibits proliferation of cancer cells harboring BRAFV600E and EGFR mutation/amplification. In BRAFV600E colorectal cancer cell

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

lines, Lirafafenib (BGB-283) effectively inhibits the reactivation of EGFR and EGFR-mediated cell proliferation[1].

Lirafafenib (BGB-283) treatment leads to dose-dependent tumor growth inhibition accompanied by partial and complete tumor regressions in both cell line-derived and primary human colorectal tumor xenografts bearing BRAFV600E mutation[1].

[1]. Tang Z, et al. BGB-283, a Novel RAF Kinase and EGFR Inhibitor, Displays Potent Antitumor Activity in BRAF-Mutated Colorectal Cancers. Mol Cancer Ther. 2015 Oct;14(10):2187-97.

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