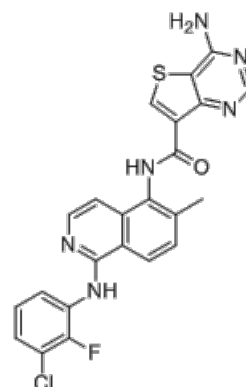


Product Name : Belvarafenib
Synonyms : HM95573;GDC5573
Cat No. : M11892
CAS Number : 1446113-23-0
Molecular Formula : C₂₃H₁₆ClFN₆O₂S

Formula Weight : 478.93



Chemical Name : 4-amino-N-[1-(3-chloro-2-fluoroanilino)-6-methylisoquinolin-5-yl]thieno[3,2-d]pyrimidine-7-carboxamide

Description : Belvarafenib (HM95573, GDC5573) is a novel potent, selective RAF inhibitor with IC₅₀ of 41 nM, 7 nM and 2 nM for BRAF WT, BRAF V600E and CRAF, respectively; inhibits cell proliferation of A375 (BRAF V600E) and SK-MEL-30 (NRAS Q61K) with IC₅₀ of 57 and 24 nM, also inhibits the phosphorylations of MEK and ERK downstream kinases in mutant BRAF and mutant NRAS melanoma cells; shows the excellent antitumor activity in mouse models xenografted with both of BRAF mutation cell lines (e.g. A375 and SK-MEL-28) and NRAS mutation cell lines.

Pathway : MAPK/ERK Signaling

Target : Raf

Receptor : Raf

Solubility : —

SMILES : FC1=C(Cl)C=CC=C1NC2=NC=CC3C(NC(C4=CSC5=C4N=CN=C5N)=O)=CC(C)=CC23

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. InHwan Bae, et al. Antitumor activity of the selective RAF inhibitor HM95573 in melanoma. AACR 2015. DOI: 10.1158/1538-7445.AM2015-2606