

Product Data Sheet

Product Name: AC480 (BMS-599626)

Cat. No.: GC13257

Chemical Properties

Cas. No. 714971-09-2

Chemical Name [(3S)-morpholin-3-yl]methyl N-[4-[[1-[(3-fluorophenyl)methyl]indazol-5-yl]amino]-5-methylpyrrolo[2,1-f][1,2,4]triazin-6-yl]carbamate

SMILES CC1=C2C(=NC=NN2C=C1NC(=O)OCC3COCCN3)NC4=CC5=C(C=C4)N(N=C5)CC6=CC(=CC=C6)F

Formula C₂₇H₂₇FN₈O₃.HCl

M.Wt 567.01

Solubility ≥ 28.35mg/mL in DMSO

Storage Store at -20°C

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

Structure

Background

AC480 (BMS-599626) is a potent, selective inhibitor of human epidermal growth factor receptor (HER) that inhibits HER1 and HER2 with IC values of 20 nM and 30 nM, respectively. AC480 has been proved to inhibit HER1 in an ATP-competitive manner. On the contrary, AC480 has shown to be an ATP noncompetitive inhibitor of HER2 [1]

AC480 inhibited the proliferation of SaI2 cells derived from a transgenic mouse tumor, breast tumor and gastric carcinoma cell lines, GEO colon tumor cells, non-small-cell lung tumor cells line via HER1 and/or HER2 signalings [1].

AC480 by oral administration has been demonstrated to suppress the growth of SaI2 tumor, GEO xenograft tumor, KPL-4 and BT474 breast tumors, N87 gastric tumor, A549 and L2987 non-small-cell lung tumors in nude mice [1].

References:

[1] Wong TW1, Lee FY, Yu C, Luo FR, Oppenheimer S, Zhang H, Smykla RA, Mastalerz H, Fink BE, Hunt JT, Gavai AV, Vite GD. Preclinical antitumor activity of BMS-599626, a pan-HER kinase inhibitor that inhibits HER1/HER2 homodimer and heterodimer signaling. Clin Cancer Res. 2006 Oct 15;12(20 Pt 1):6186-93.

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

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