

Product Data Sheet

Product Name: XL-418
Cat. No.: GC80870

Chemical Properties

Cas. No. 871343-09-8

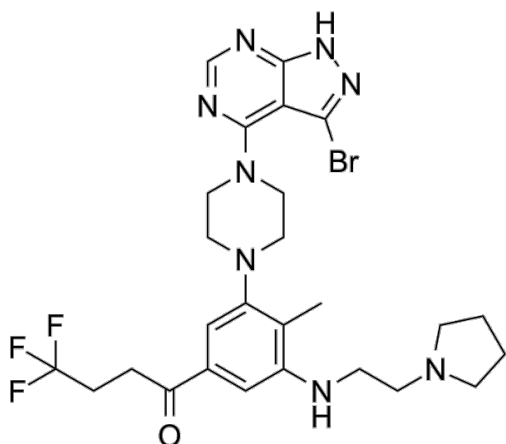
Formula $C_{26}H_{32}BrF_3N_8O$ M.Wt 609.48

Solubility DMSO: 50 mg/mL (82.04 mM; Need ultrasonic) 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

XL-418 is an orally active dual Akt and p70S6K inhibitor with IC₅₀ s of 1 nM for Akt1 and 2 nM for

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

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p70S6K. XL-418 inhibits the phosphorylation of ribosomal protein S6 and GSK3 β . XL-418 can be used for the study of prostate carcinoma and breast cancer [1].

In Vivo, XL-418 (compound 11b; 100 mg/kg; p.o.; twice a day; total five doses) inhibits the phosphorylation of ribosomal protein S6 and GSK3 β in the PC-3 prostate carcinoma model [1]. XL-418 (50 mg/kg; p.o.; once a day; for 15 days) inhibits tumor growth in the PC-3 prostate carcinoma model [1]. XL-418 (50-100 mg/kg; p.o.; two days every 4 days) shows highly active in this study with 71% tumor growth inhibition for the 50 mg/kg dose and 96% tumor growth inhibition (TGI) for the 100 mg/kg alternate dosing schedule as a single agent [1].

In Vitro, XL-418 inhibits the phosphorylation of ribosomal protein S6 with IC₅₀ values of 30 nM and 55 nM in A549 and PC-3 cells. XL-418 inhibits the phosphorylation of GSK3 β with an IC₅₀ value of 194 nM in PC-3 cells [1].

References:

[1]. Rice KD, et al. Pyrazolopyrimidines as dual Akt/p70S6K inhibitors. Bioorg Med Chem Lett. 2012 Apr 15;22(8):2693-7.

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