
Product Data Sheet

Product Name: XL413 (BMS-863233)

Cat. No.: GC26084

Chemical Properties

Cas. No. 1169562-71-3

Formula C₁₄H₁₃Cl₂N₃O₂

M.Wt 326.18

Solubility DMSO: Insoluble; Water: 46 mg/mL (141.03 mM); Ethanol: Insoluble
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 sizes: ship with RT, or blue ice upon request.

Structure

Background

XL413 (BMS-863233) is a potent and selective cell division cycle 7 homolog (CDC7) kinase inhibitor with IC₅₀ of 3.4 nM, showing 63-, 12- and 35-fold selectivity over CK2, Pim-1 and pMCM2, respectively. Phase 1/2.

In MDA-MB-231T and Colo-205 cell lines, XL413 results in inhibition of CDC7 specific phosphorylation of MCM2. XL413 also inhibits the cell proliferation, decreases cell viability and elicits the caspase 3/7 activity in Colo-205 cells. Moreover, XL413 results in modified S phase progression that subsequently leads to apoptotic cell death. [1]

In a Colo-205 xenograft model, XL413, at the 3 mg/kg dose, causes 70% inhibition of phosphorylated MCM2, and causes significant tumor growth regression at the 100 mg/kg dose. [1]

[1] Koltun ES, et al. Bioorg Med Chem Lett. 2012, 22(11), 3727-3731.

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

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