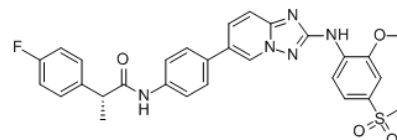


Product Name : Empesertib
Cat. No. : PC-43261
CAS No. : 1443763-60-7
Molecular Formula : C₂₉H₂₆FN₅O₄S
Molecular Weight : 559.6113
Target : Monopolar Spindle 1 (Mps1/TTK)
Solubility : DMSO: ≥ 35 mg/mL



Biological Activity

Empesertib (BAY-1161909, BAY1161909) is a potent, selective Monopolar spindle 1 (**Mps1/TTK**) inhibitor with IC₅₀ of 0.34 nM.

BAY1161909 inhibits only JNK2 and JNK3 more than 50% at 1 μM in Millipore panel (230 kinases).

BAY1161909 abrogates nocodazole-induced metaphase arrest in HeLa cells with IC₅₀ of 56 nM, inhibits the proliferation of a panel tumor cell lines covering various cancer with mean IC₅₀ of 160 nM.

BAY1161909 enhances the efficacy of antimetabolic cancer drugs and shows potentially overcome resistance in vivo.

References

Wengner AM, et al. *Mol Cancer Ther.* 2016 Apr;15(4):583-92.

Uitdehaag JCM, et al. *J Mol Biol.* 2017 Jul 7;429(14):2211-2230.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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