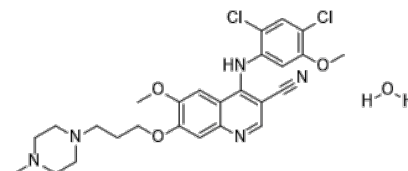


Product Name : Bosutinib hydrate
Cat. No. : PC-24043
CAS No. : 918639-08-4
Molecular Formula : C₂₆H₃₁Cl₂N₅O₄
Molecular Weight : 548.47
Target : Src
Solubility : 10 mM in DMSO



Biological Activity

Bosutinib hydrate (SKI-606) is a potent, dual Src/Abl inhibitor with IC₅₀ of 1.2 nM (Src enzyme), inhibits Src autophosphorylation with an IC₅₀ of 0.25 μM in HT29 cells, inhibits bacterially expressed Abl kinase activity with IC₅₀ of 1 nM.

Bosutinib (SKI-606) inhibits the growth of the Abl-MLV-transformed fibroblasts with IC₅₀ of 90 nM

Bosutinib (SKI-606) inhibits v-Abl phosphorylation with IC₅₀ of 25-50 nM, inhibits STAT5 Phosphorylation.

Bosutinib (SKI-606) inhibits anchorage-independent growth of Src-transformed fibroblasts with an IC₅₀ of 100 nM, and inhibits Src-dependent protein tyrosine phosphorylation.

Bosutinib (SKI-606) inhibits proliferation in CML cells, inhibits tyrosine phosphorylation of cellular proteins and Bcr-Abl in CML cells.

Bosutinib (SKI-606) displays excellent antitumor activity in Src-transformed fibroblast xenografts in nude mice.

References

Golas JM, et al. Cancer Res. 2003 Jan 15;63(2):375-81.

Golas JM, et al. Cancer Res. 2005 Jun 15;65(12):5358-64.

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

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