

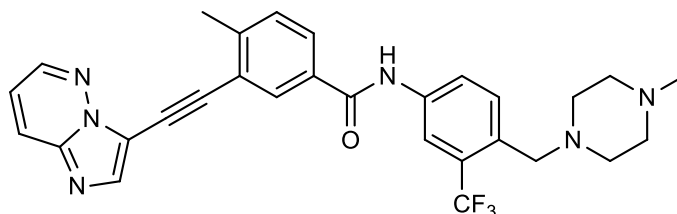
Catalog # 10-5064

Ponatinib

CAS# 943319-70-8

3-(2-Imidazo[1,2-b]pyridazin-3-ylethynyl)-4-methyl-N-[4-[(4-methyl-1-piperazinyl)methyl]-3-(trifluoromethyl)phenyl]-benzamide; AP-24534

Lot # X109827



Highly potent pan-Bcr-Abl and multikinase inhibitor, suppressing the activity of native Bcr-Abl ($IC_{50}=0.37$ nM) as well as the mutants T315I ($IC_{50}=2$ nM), Q252H ($IC_{50}=0.44$ nM), Y253F ($IC_{50}=0.3$ nM), M351T ($IC_{50}=0.3$ nM) and H396P ($IC_{50}=0.34$ nM).¹ Also inhibits PDGFR α , c-Src and c-Kit ($IC_{50}=1.1$, 5.4 and 12.5 nM respectively)² as well as FGFR-mediated signaling ($IC_{50}<40$ nM)³. Protects against influenza A virus-induced death by suppressing cytokine storm in mouse models.⁴

- 1) O'Hare *et al.* (2009), *AP24534, a pan-BCR-ABL inhibitor for chronic myeloid leukemia, potently inhibits the T315I mutant and overcomes mutation-based resistance*; *Cancer Cell*, **16** 401
- 2) Gozgit *et al.* (2011), *Potent activity of ponatinib (AP24535) in models of FLT3-driven acute myeloid leukemia and other hematologic malignancies*; *Mol. Cancer Ther.*, **10** 1028
- 3) Gozgit *et al.* (2012), *Ponatinib (AP24534), a multitargeted pan-FGFR inhibitor with activity in multiple FGFR-amplified or mutated cancer models*; *Mol. Cancer Ther.*, **11** 690
- 4) Chen *et al.* (2019), *Ponatinib Protects Mice From Lethal Influenza Infection by Suppressing Cytokine Storm*; *Front. Immunol.*, **10** 1393

PHYSICAL DATA

Molecular Weight:	532.56
Molecular Formula:	C ₂₉ H ₂₇ F ₃ N ₆ O
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 25 mg/ml with warming)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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