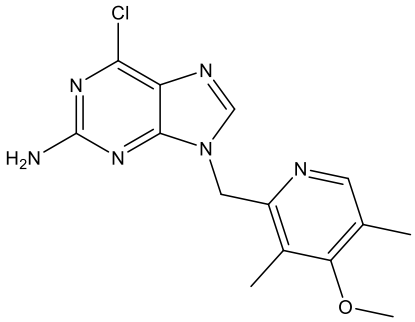
Catalog # 10-4641
BIIB021

CAS# 848695-25-0

6-Chloro-9-[(4-methoxy-3,5-dimethylpyridin-2-yl)methyl]purin-2-amine; CNF2024

Lot # FBS2106



BIIB021 is a potent HSP90 inhibitor (IC_{50} = 30 nM HER-2 degradation).[1] It inhibited the proliferation of MCF7 and BT474 breast cancer cell lines (IC_{50} = 100 nM for each). BIIB021 has shown efficacy as a therapeutic in multiple cancer models.[2-5]

1) Kasibhatla *et al*. (2007), *Rationally designed high-affinity 2-amino-6-halopurine heat shock protein 90 inhibitors that exhibit potent antitumor activity*; J. Med. Chem. **50** 2767
2) Lundgren *et al*. (2009), *BIIB021, an orally available, fully synthetic small-molecule inhibitor of the heat shock protein Hsp90*; Mol. Cancer Ther. **8** 921
3) Boll *et al*. (2009), *Heat shock protein 90 inhibitor BIIB021 (CNF2024) depletes NF-kappaB and sensitizes Hodgkin's lymphoma cells for natural killer cell-mediated cytotoxicity*; Clin. Cancer Res. **15** 5108
4) Zhang *et al*. (2010), *BIIB021, a synthetic Hsp90 inhibitor, has broad application against tumors with acquired multidrug resistance*; Int. J. Cancer **126** 1226
5) Wang *et al*. (2014), *BIIB021, a novel Hsp90 inhibitor, sensitizes esophageal squamous cell carcinoma to radiation*; Biochem. Biophys. Res. Commun. **452** 945

PHYSICAL DATA

Molecular Weight:	318.76
Molecular Formula:	$C_{14}H_{15}ClN_6O$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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