

**Product Name** : BIIB021

**Synonyms** : CNF2024; BIIB-021; BIIB 021; CNF 2024; CNF-2024

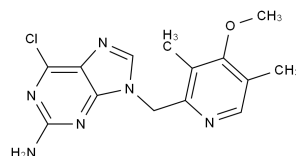
**Cat No.** : M16162

**CAS Number** : 848695-25-0

**Molecular Formula** : C<sub>14</sub>H<sub>15</sub>ClN<sub>6</sub>O

**Formula Weight** : 318.76

**Chemical Name** : 9H-Purin-2-amine, 6-chloro-9-[(4-methoxy-3,5-dimethyl-2-pyridinyl)methyl]-



**Description** : A potent, selective, orally available HSP90 inhibitor with K<sub>i</sub> of 1.7 nM for Hsp90α; displays no significant activity against a broad panel of protein kinases, and Na<sup>+</sup>/K<sup>+</sup> ATPase; induces the degradation of Hsp90 client proteins including HER-2, AKT, and Raf-1 and upregulates expression of Hsp70 and Hsp27 in tumor cells; inhibits cell growth and induces cell death in cell lines from a variety of tumor types at nanomolar concentrations (IC<sub>50</sub>=60 nM in N87 cells); exhibits antitumor effects in vivo. Breast Cancer Phase 1 Discontinued

**Pathway** : Cytoskeleton/Cell Adhesion Molecules

**Target** : HSP

**Receptor** : HSP90

**Solubility** : DMSO: ≥ 45 mg/mL

**SMILES** : ClC1=C2C(N(CC3=C(C)C(OC)=C(C)C=N3)C=N2)=NC(N)=N1

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Kasibhatla SR, et al. J Med Chem. 2007 Jun 14;50(12):2767-78. 2. Lundgren K, et al. Mol Cancer Ther. 2009 Apr;8(4):921-9. 3. Bill B, et al. Clin Cancer Res. 2009 Aug 15;15(16):5108-16. 4. Gopalakrishnan R, et al. Clin Cancer Res. 2013 Sep 15;19(18):5016-26.