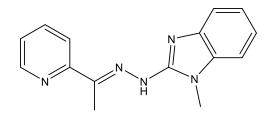


Catalog # 10-3903

SI-2

CAS# 380537-35-9 1-Methyl-N-[(E)-1-pyridin-2-ylethylideneamino]benzimidazole-2-amine Lot # JKM1210



Si-2 is potent inhibitor of steroid receptor coactivator-3 (SRC-3).¹ It blocks MDA-MB-468 cell growth with an IC_{50} = 3.4 nM without effecting normal cells.¹ It significantly inhibited breast cancer cell growth in an orthotopic MDA-MD-468 mouse model. Treatment of MCF-7 or triple negative MDA-MB-231 cells with SI-2 resulted in inhibition of proliferation and breast cancer stem cell (CSC) tumorsphere formation.² CSC markers CD44⁺/CD24^{-/10} and aldehyde dehydrogenase (ALDH) were also reduced indicating that SI-2 can selectively interfere with the TIC/CSC state in breast cancer cells.^{2,3}

- 1) Song et al. (2016), Development of potent small-molecule inhibitors to drug the undruggable steroid receptor coactivator-3; Proc. Natl. Acad. Sci. USA **113** 4970
- Rohira et al. (2017), Targeting SRC Coactivators Blocks the Tumor-Initiating Capacity of Cancer Stem-like Cells; Cancer Res. 77 4293
- 3) Truong et al. (2018), Cancer Stem Cell Phenotypes in ER+ Breast Cancer Models are Promoted by PELP/AIB1 Complexes; Mol. Cancer Res. **16** 707

PHYSICAL DATA

Molecular Weight:	265.31
Molecular Formula:	C ₁₅ H ₁₅ N ₅
Purity:	>98% HPLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (20 mg/ml)
Physical Description:	Pale orange solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions
	at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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