
Catalog	Unit
TBI3903-5MG	5 mg
TBI3903-25MG	25 mg

Product Details

Formal Name: 1-Methyl-N-[(E)-1-pyridin-2-ylethylideneamino]benzimidazole-2-amine

Molecular Formula: C₁₅H₁₅N₅

Formula Weight: 265.30

CAS Number: 380537-35-9

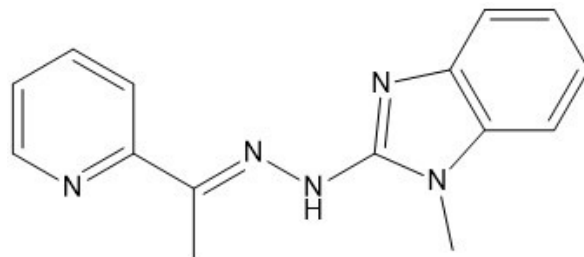
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 20 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Potent inhibitor of SRC-3 (steroid receptor coactivator-3)

Functions

Potent inhibitor of steroid receptor coactivator-3 (SRC-3). Blocks growth of MDA-MB-468 cells (IC₅₀ = 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. CSC markers CD44⁺/CD24^{-/lo} and aldehyde dehydrogenase (ALDH) were also reduced indicating that SI-2 can selectively interfere with the TIC/CSC state in breast cancer cells.

Application Procedures

First dissolved in DMSO (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 1 month.

For research use only.