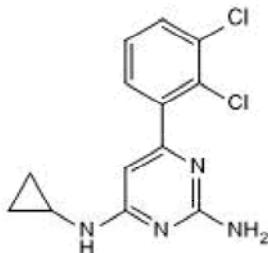


Certificate of Analysiswww.tocris.com**Product Name:** TH 588**Catalog No.:** 5334**Batch No.:** 1

CAS Number: 1609960-31-7

IUPAC Name: *N*⁴-Cyclopropyl-6-(2,3-dichlorophenyl)-2,4-pyrimidinediamine**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₃H₁₂Cl₂N₄**Batch Molecular Weight:** 295.17**Physical Appearance:** White solid**Solubility:** DMSO to 100 mM**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 99.5% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 52.9 4.1 18.98

Found 52.91 4.03 18.82

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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CAS Number: 1609960-31-7

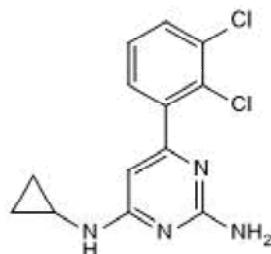
IUPAC Name: *N*⁴-Cyclopropyl-6-(2,3-dichlorophenyl)-2,4-pyrimidinediamine**Description:**

Potent MTH1 inhibitor (IC_{50} = 5 nM). Induces oxidative DNA damage and reduces survival in cancer cells. Inhibits growth of breast and colorectal cancer xenografts in mice.

Physical and Chemical Properties:Batch Molecular Formula: C₁₃H₁₂Cl₂N₄

Batch Molecular Weight: 295.17

Physical Appearance: White solid

Minimum Purity: >98%**Batch Molecular Structure:****Storage:** Store at -20°C**Solubility & Usage Info:**

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

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References:

Gad *et al* (2014) MTH1 inhibition eradicates cancer by preventing sanitation of the dNTP pool. *Nature* **508** 215. PMID: 24695224.

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