

Certificate of Analysis

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Product Name: KCC 07

Catalog No.: 6615

Batch No.: 1

CAS Number: 315702-75-1

IUPAC Name: 3-[[4-(2-Pyridinyl)-2-thiazolyl]amino]phenol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₁N₃OS.H₂O

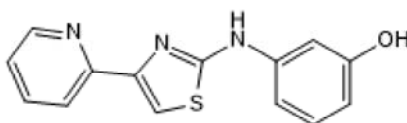
Batch Molecular Weight: 287.34

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.0% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.52	4.56	14.62
Found	58.16	4.54	14.5

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Description:

MBD2 (Methyl-CpG-binding domain protein 2) inhibitor. Prevents binding of MBD2 to methylated DNA and activates brain specific angiogenesis inhibitor 1 (BAI1)/p53 signaling. Inhibits medulloblastoma (MB) cell growth in vitro and reduces tumor size in mice bearing MB xenografts. Brain penetrant.

Physical and Chemical Properties:

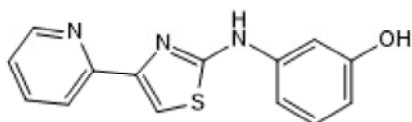
Batch Molecular Formula: C₁₄H₁₁N₃OS.H₂O

Batch Molecular Weight: 287.34

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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.

References:

Zhu *et al* (2018) BAI1 suppresses medulloblastoma formation by protecting p53 from Mdm2-mediated degradation. *Cancer Cell* **33** 1004. PMID: 29894688.

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