

Product Name: U0124

Catalog No.: 1868

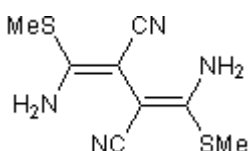
Batch No.: 1

CAS Number: 108923-79-1

IUPAC Name: *Bis*[amino(methylthio)methylene]butanedinitrile

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₀N₄S₂
Batch Molecular Weight: 226.31
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.31 (Dichloromethane:Methanol [95:5])
HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.46	4.45	24.76
Found	42.27	4.5	24.45

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

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IUPAC Name: *Bis*[amino(methylthio)methylene]butanedinitrile

Description:

Inactive analog of U0126 (Cat. No. 1144). Used as a negative control. Does not inhibit MEK at concentrations up to 100 µM.

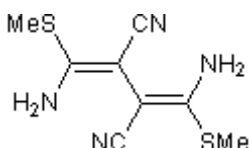
Physical and Chemical Properties:

Batch Molecular Formula: C₈H₁₀N₄S₂

Batch Molecular Weight: 226.31

Physical Appearance: Off-white solid

Batch Molecular Structure:



Storage: Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

CAUTION - This product isomerises relatively rapidly once in solution. Therefore, we recommend that, as far as possible, solutions should be made up and used within 24 hours.

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:

Favata et al (1998) Identification of a novel inhibitor of mitogen-activated protein kinase kinase. *J.Biol.Chem.* **273** 18623. PMID: 9660836.

Fitzgerald (2000) Regulation of voltage-dependent calcium channels in rat sensory neurones involves a Ras-mitogen-activated protein kinase pathway. *J.Physiol.* **527** 433. PMID: 10990531.

Sekar et al (2001) Concerted transcriptional activation of the low density lipoprotein receptor gene by insulin and luteinizing hormone in cultured porcine granulosa-luteal cells: possible convergence of protein kinase A, phosphatidylinositol 3-kinase, and mitogen-activated protein kinase signaling pathways. *Endocrinology* **142** 2921. PMID: 11416012.

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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