

Certificate of Analysis

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Product Name: JX 06

Catalog No.: 5845

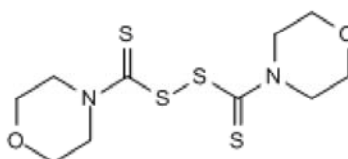
Batch No.: 1

CAS Number: 729-46-4

IUPAC Name: Bis(morpholinothiocarbonyl) disulfide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₆N₂O₂S₄
Batch Molecular Weight: 324.51
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	37.01	4.97	8.63
Found	37.15	5.01	8.64

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

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Product Name: JX 06

Catalog No.: 5845

Batch No.: 1

CAS Number: 729-46-4

IUPAC Name: Bis(morpholinothiocarbonyl) disulfide

Description:

JX 06 is a potent and selective pyruvate dehydrogenase kinase (PDK) 1/2/3 inhibitor (IC₅₀ values are 49, 101 and 313 nM for PDK1, PDK2 and PDK3, respectively). Exhibits selectivity for PDK1/2/3 over PDK4 and a panel of 323 other kinases. Suppresses A549 lung cancer cell proliferation in vitro. Reduces tumor volume of A549 xenografts in mice.

Physical and Chemical Properties:

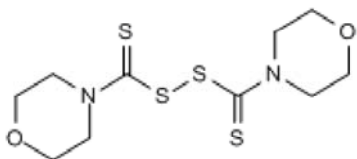
Batch Molecular Formula: C₁₀H₁₆N₂O₂S₄

Batch Molecular Weight: 324.51

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Sun *et al* (2015) JX06 selectively inhibits pyruvate dehydrogenase kinase PDK1 by a covalent cysteine modification. *Cancer Res.* **75** 4923. PMID: 26483203.

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.

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