

Product Name: BAM 15

Catalog No.: 5737

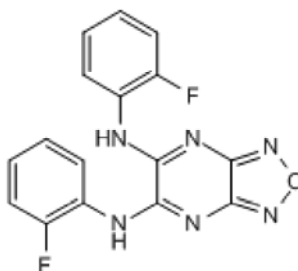
Batch No.: 6

CAS Number: 210302-17-3

IUPAC Name: N⁵,N⁶-bis(2-Fluorophenyl)-[1,2,5]oxadiazolo[3,4-*b*]pyrazine-5,6-diamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₀F₂N₆O
Batch Molecular Weight: 340.29
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.47	2.96	24.7
Found	56.39	3.02	24.72

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

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IUPAC Name: N⁵,N⁶-bis(2-Fluorophenyl)-[1,2,5]oxadiazolo[3,4-*b*]pyrazine-5,6-diamine

Description:

BAM 15 is a mitochondrial protonophore uncoupler; uncouples oxidative phosphorylation in L6 myoblast mitochondria in vitro (EC₅₀ = 270 nM). Does not depolarize the plasma membrane. Protects mice from acute renal ischemic-reperfusion injury.

Physical and Chemical Properties:

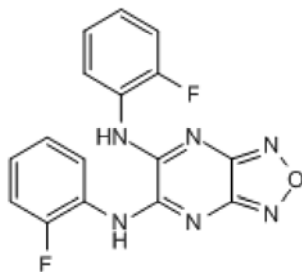
Batch Molecular Formula: C₁₆H₁₀F₂N₆O

Batch Molecular Weight: 340.29

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Axelrod *et al* (2020) BAM15-mediated mitochondrial uncoupling protects against obesity and improves glycemic control. *EMBO Mol.Med.* doi: 10.15252. PMID: 32519812.

Kenwood *et al* (2015) Structure-activity relationships of furazano[3,4-*b*]pyrazines as mitochondrial uncouplers. *Bioorg.Med.Chem.Lett.* **25** 4858. PMID: 26119501.

Kenwood *et al* (2013) Identification of a novel mitochondrial uncoupler that does not depolarize the plasma membrane. *Mol.Metab.* **3** 114. PMID: 24634817.

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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