

Certificate of Analysis

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Product Name: AM 2394

Catalog No.: 6034

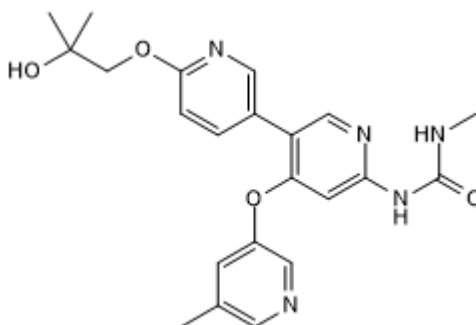
Batch No.: 1

CAS Number: 1442684-77-6

IUPAC Name: *N*-[6'-(2-Hydroxy-2-methylpropoxy)-4-[(5-methyl-3-pyridinyl)oxy]][3,3'-bipyridin]-6-yl]-*N*-methylurea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₂ H ₂₅ N ₅ O ₄
Batch Molecular Weight:	423.47
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 10 mM with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	62.4	5.95	16.54
Found	62.42	5.89	16.41

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

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Description:

Potent glucokinase activator (EC₅₀ = 60 nM). Orally bioavailable. Reduces plasma glucose levels in an oral glucose tolerance test in ob/ob mice.

Physical and Chemical Properties:

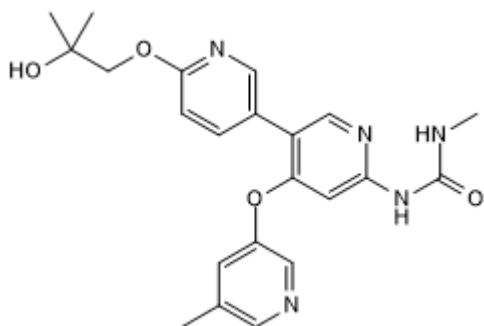
Batch Molecular Formula: C₂₂H₂₅N₅O₄

Batch Molecular Weight: 423.47

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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:

Dransfield et al (2016) Novel series of potent glucokinase activators leading to the discovery of AM-2394. *ACS Med.Chem.Lett.* **7** 714. PMID: 27437083.

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