

Certificate of Analysis

Product Name: S3QEL 2

Catalog No.: 5735

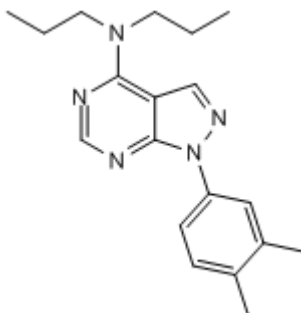
Batch No.: 1

CAS Number: 890888-12-7

IUPAC Name: 1-(3,4-Dimethylphenyl)-*N,N*-dipropyl-1*H*-pyrazolo[3,4-*d*]pyrimidin-4-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₉ H ₂₅ N ₅ ·0.1H ₂ O
Batch Molecular Weight:	325.24
Physical Appearance:	Off White solid
Solubility:	DMSO to 20 mM with gentle warming ethanol to 20 mM with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.6% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	
	Carbon Hydrogen Nitrogen
Theoretical	70.17 7.81 21.53
Found	70.01 7.89 21.69

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

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Description:

Suppresses superoxide production by complex III in the mitochondria without affecting normal electron flux or cellular oxidative phosphorylation (IC₅₀ = 1.7 μM). Suppresses HIF-1α accumulation and enhances survival and function of primary pancreatic islets in vitro. Cell permeable.

Physical and Chemical Properties:

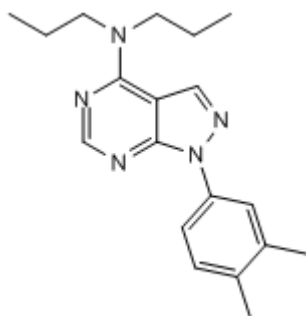
Batch Molecular Formula: C₁₉H₂₅N₅·0.1H₂O

Batch Molecular Weight: 325.24

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM with gentle warming
ethanol to 20 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:

Orr *et al* (2015) Suppressors of superoxide production from mitochondrial complex III. *Nat.Chem.Biol.* **11** 834. PMID: 26368590.

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