

Product Name: TGX 221

Catalog No.: 5832

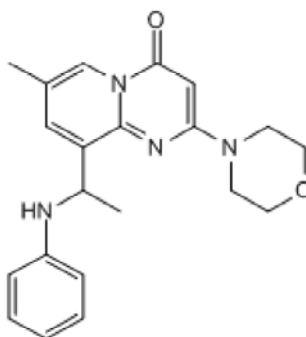
Batch No.: 1

CAS Number: 663619-89-4

IUPAC Name: 7-Methyl-2-(4-morpholinyl)-9-[1-(phenylamino)ethyl]-4*H*-pyrido[1,2-*a*]pyrimidin-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₄N₄O₂
Batch Molecular Weight: 364.44
Physical Appearance: Off White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.21	6.64	15.37
Found	69.35	6.6	15.38

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

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IUPAC Name: 7-Methyl-2-(4-morpholinyl)-9-[1-(phenylamino)ethyl]-4H-pyrido[1,2-a]pyrimidin-4-one

Description:

TGX 221 is a potent and selective PI 3-kinase β inhibitor (IC_{50} values are 0.007, 0.1, 3.5 and 5 μ M for the β , δ , γ and α isoforms, respectively). Shows >1,000-fold selectivity for PI 3-kinase β over a range of other kinases. Inhibits thrombus formation in animal models.

Physical and Chemical Properties:

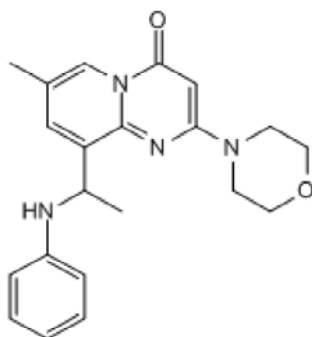
Batch Molecular Formula: $C_{21}H_{24}N_4O_2$

Batch Molecular Weight: 364.44

Physical Appearance: Off White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 50 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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Condliffe *et al* (2005) Sequential activation of class IB and class IA PI3K is important for the primed respiratory burst of human but not murine neutrophils. *Blood* **106** 1432. PMID: 15878979.

Jackson *et al* (2005) PI 3-kinase p110 β : a new target for antithrombotic therapy. *Nat.Med.* **11** 507. PMID: 15834429.

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