

Product Name: PQ 69

Catalog No.: 5351

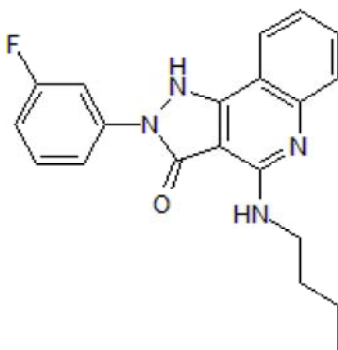
Batch No.: 1

CAS Number: 910045-32-8

IUPAC Name: 4-(Butylamino)-2-(3-fluorophenyl)-1,2-dihydro-3H-pyrazolo[4,3-c]quinolin-3-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₉FN₄O
Batch Molecular Weight: 350.39
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.32 (Dichloromethane:Methanol [97:3])
HPLC: Shows 98.4% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
 Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.56	5.47	15.99
Found	68.64	5.34	15.93

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

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Description:

Potent and selective A₁ receptor inverse agonist. Exhibits high binding affinity at A₁ receptor (K_i values are 0.07 and 0.96 nM for rat and human receptors respectively). Reduces basal [³⁵S]-GTPγS binding 44.6% (IC₅₀ = 0.19 nM). Antagonizes the effects of A₁ agonist R-PIA (IC₅₀ = 18.3 nM) and exhibits competitive antagonism on CCPA-induced tracheal contractions ex vivo. Displays 217- fold selectively over hA_{2A} receptor and >1000-fold selectivity over hA₃ receptor.

Physical and Chemical Properties:

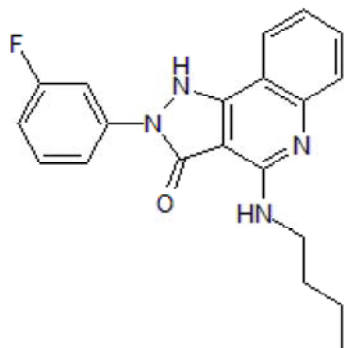
Batch Molecular Formula: C₂₀H₁₉FN₄O

Batch Molecular Weight: 350.39

Physical Appearance: Orange solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Lu *et al* (2014) PQ-69, a novel and selective adenosine A₁ receptor antagonist with inverse agonist activity. *Purinergic Signal*. **10** 619. PMID: 25248972.

Storage: Store at +4°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.

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