

Product Name: Ebio1

Catalog No.: 8137

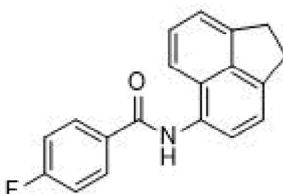
Batch No.: 1

CAS Number: 339287-36-4

IUPAC Name: *N*-(1,2-Dihydro-5-acenaphthylenyl)-4-fluorobenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₄FNO
Batch Molecular Weight: 291.33
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
 ethanol to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.33	4.84	4.81
Found	78.47	4.89	4.81

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

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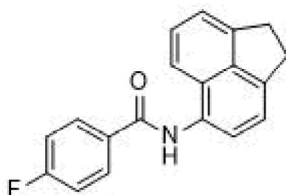
IUPAC Name: *N*-(1,2-Dihydro-5-acenaphthylenyl)-4-fluorobenzamide**Description:**

Ebio1 is an activator of KCNQ2 voltage-gated potassium channels ($EC_{50} = 247$ nM). Ebio1 activates KCNQ2 by increasing both the open probability and the conductance of the channel. Ebio1 has no effect on the voltage sensitivity of KCNQ1, KCNQ3, KCNQ4 and KCNQ5.

Physical and Chemical Properties:Batch Molecular Formula: C₁₉H₁₄FNO

Batch Molecular Weight: 291.33

Physical Appearance: Beige solid

Minimum Purity: ≥98%**Batch Molecular Structure:****References:**

Zhang *et al* (2024) A small-molecule activation mechanism that directly opens the KCNQ2 channel. *Nat.Chem.Biol.* **20** 847. PMID: 38167918.

Storage: Store at -20°C**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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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