

Product Name: AZ 1729

Catalog No.: 6826

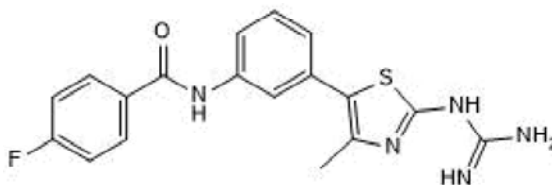
Batch No.: 1

CAS Number: 2016864-46-1

IUPAC Name: 4-Fluoro-N-[3-[2-[(aminoiminomethyl)amino]-4-methyl-5-thiazolyl]phenyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₆FN₅OS
Batch Molecular Weight: 369.42
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
 ethanol to 5 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.52	4.37	18.96
Found	58.44	4.46	18.72

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

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Description:

FFA2 allosteric agonist. Inhibits forskolin-induced cAMP increase and stimulates ³⁵SGTPγS binding in biochemical assays (pEC₅₀ values are 6.9 and 7.23, respectively). Binds at allosteric binding site. In functional assays, displays positive allosteric modulation of FFA-induced G_i signaling and negative allosteric modulation of FFA-induced G_q/G₁₁ signaling. Inhibits lipolytic effect of isoproterenol (pEC₅₀ = 5.03) and induces migration of human neutrophils in vitro.

Physical and Chemical Properties:

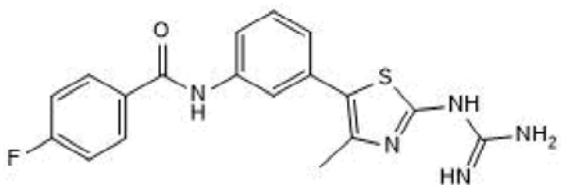
Batch Molecular Formula: C₁₈H₁₆FN₅OS

Batch Molecular Weight: 369.42

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Sergeev *et al* (2017) A single extracellular amino acid in free fatty acid receptor 2 defines antagonist species selectivity and G protein selection bias. *Sci.Rep.* **7** 13741. PMID: 29061999.

Bolognini *et al* (2016) A novel allosteric activator of free fatty acid 2 receptor displays unique G_i-functional bias. *J.Biol.Chem.* **291** 18915. PMID: 27385588.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 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. 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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