

Product Name: RIPK2 inhibitor 1

Catalog No.: 6603

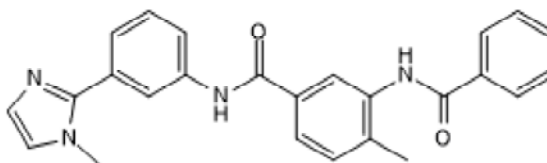
Batch No.: 1

CAS Number: 1290490-78-6

IUPAC Name: 3-(Benzoylamino)-4-methyl-N-[3-(1-methyl-1H-imidazol-2-yl)phenyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₂N₄O₂
Batch Molecular Weight: 410.48
Physical Appearance: Cream solid
Solubility: DMSO to 100 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	73.15	5.4	13.65
Found	72.38	5.26	13.29

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

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Description:

RIPK2 inhibitor 1 is a potent receptor-interacting protein kinase 2 (RIPK2) inhibitor (IC₅₀ of 5-10 nM). It inhibits NF-κB activity and decreases cancer cell proliferation by 70%. In vivo, RIPK2 inhibitor 1 inhibits intestinal and lung inflammation with low toxicity in rodent models.

Physical and Chemical Properties:

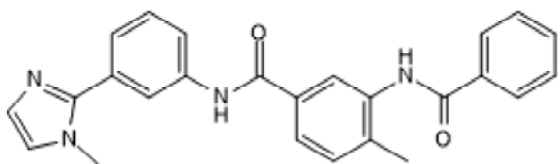
Batch Molecular Formula: C₂₅H₂₂N₄O₂

Batch Molecular Weight: 410.48

Physical Appearance: Cream solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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.

References:

Salla *et al* (2018) Identification and characterization of novel receptor-interacting serine/threonine-protein kinase 2 inhibitors using structural similarity analysis. *J.Pharmacol.Exp.Ther.* **365** 354. PMID: 29555876.

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