

Product Name: VU 0134992

Catalog No.: 6877

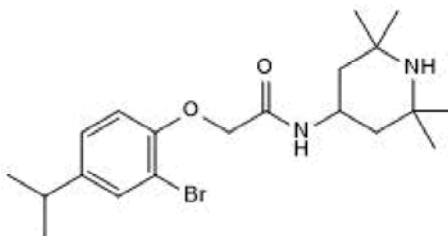
Batch No.: 1

CAS Number: 755002-90-5

IUPAC Name: 2-(2-Bromo-4-isopropylphenoxy)-N-(2,2,6,6-tetramethylpiperidin-4-yl)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₃₁BrN₂O₂
Batch Molecular Weight: 411.38
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.39	7.6	6.81
Found	58.14	7.64	6.89

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

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Description:

K_{ir}4.1 potassium channel blocker (IC₅₀ = 0.97 μM). Displays 10-fold selectivity for K_{ir}4.1 over K_{ir}4.1/5.1 concatemeric channels and >30-fold selectivity over K_{ir}1.1, 2.1 and 2.2. Increases urine output and urinary Na⁺ and K⁺ excretion in volume-loaded rats.

Physical and Chemical Properties:

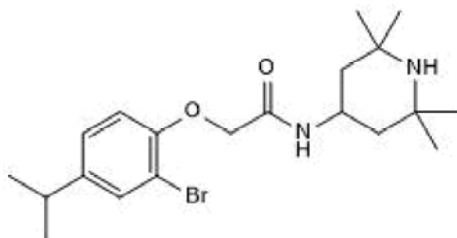
Batch Molecular Formula: C₂₀H₃₁BrN₂O₂

Batch Molecular Weight: 411.38

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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:

Kharade et al (2018) Discovery, characterization, and effects on renal fluid and electrolyte excretion of the K_{ir}4.1 potassium channel pore blocker, VU0134992. *Mol.Pharmacol.* **94** 926. PMID: 29895592.

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