

Catalog	Unit
TBI4651-5MG	5 mg
TBI4651-25MG	25 mg

Product Details

Formal Name: 2-(2-Bromo-4-propan-2-ylphenoxy)-N-(2,2,6,6-tetramethylpiperidin-4-yl)acetamide

Molecular Formula: C₂₀H₃₁BrN₂O₂

Formula Weight: 411.4

CAS Number: 755002-90-5

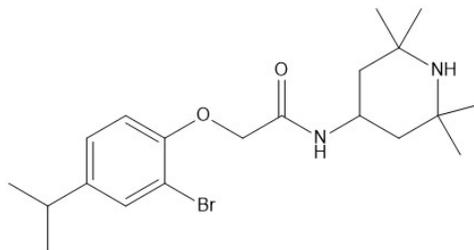
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (25 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Kir4.1 blocker

Functions

Blocker of the inward rectifier potassium channel K_{ir}4.1 (IC₅₀ = 970 nM). It also inhibits K_{ir}3.1/3.2, K_{ir}3.1/3.4, and K_{ir}4.2 with similar potency. VU0134992 induced diuresis, natriuresis, and kaliuresis in Sprague-Dawley rats suggesting therapeutic blood pressure lowering potential. It reduced polymyxin-induced nephrotoxicity in cell culture and mouse explant kidney tissue.

Application Procedures

First dissolved in DMSO (25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.