

VU 0240551

Catalog No: tcsc3219



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

893990-34-6

Formula:

$C_{16}H_{14}N_4OS_2$

Pathway:

Membrane Transporter/Ion Channel

Target:

Potassium Channel

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 50 mg/mL (146.01 mM); H₂O :

Observed Molecular Weight:

342.44

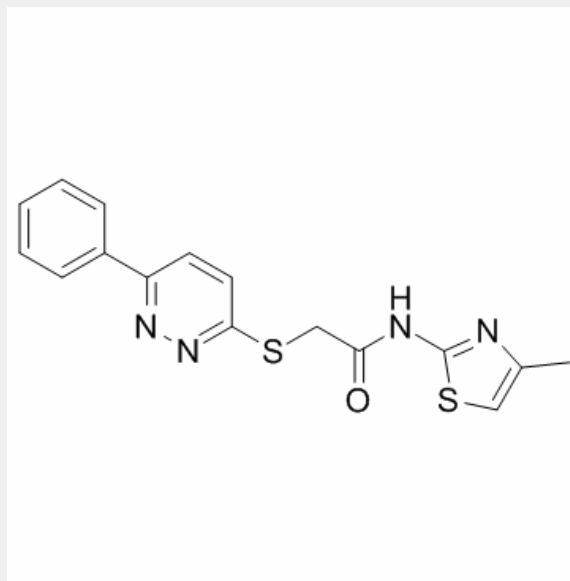
Product Description

VU 0240551 is a small molecule inhibitor of the neuronal K-Cl cotransporter, KCC2 (IC₅₀ = 560 nM for K⁺ uptake assay in KCC2-overexpressing cells).

IC50 value: 560 nM [1]

Target: K-Cl cotransporter(KCC2)

VU 0240551 exhibits selectivity over the Na-K-2Cl cotransporter, NKCC1. VU 0240551 also inhibits hERG and L-type Ca²⁺ channels [1]. Herein we report the discovery and SAR of an improved novel antagonist (VU0463271) of the neuronal-specific potassium-chloride cotransporter 2 (KCC2), with an IC(50) of 61 nM and >100-fold selectivity versus the closely related Na-K-2Cl cotransporter 1 (NKCC1) and no activity in a larger panel of GPCRs, ion channels and transporters [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!