



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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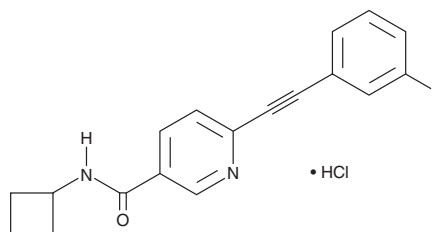
# PRODUCT INFORMATION



## VU0360172 (hydrochloride)

Item No. 22074

**CAS Registry No.:** 1309976-62-2  
**Formal Name:** N-cyclobutyl-6-[2-(3-fluorophenyl)ethynyl]-3-pyridinecarboxamide, monohydrochloride  
**MF:** C<sub>18</sub>H<sub>15</sub>FN<sub>2</sub>O • HCl  
**FW:** 330.8  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 308 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

VU0360172 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the VU0360172 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. VU0360172 (hydrochloride) is soluble in the organic solvent DMSO.

### Description

VU036172 is a positive allosteric modulator of metabotropic glutamate receptor 5 (mGluR5; K<sub>i</sub> = 195 nM).<sup>1</sup> It is selective for mGluR5 over mGluR1, mGluR3, and mGluR4 at 10 μM. VU036172 (20 and 50 μM) prevents TNF-α and nitric oxide (NO) production by IFN-γ- or LPS-stimulated BV-2 and primary microglial cells.<sup>2</sup> It reduces the expression of inducible nitric oxide synthase (iNOS) and increases the expression of Ym1 and arginase 1 in LPS-stimulated BV-2 cells when used at a concentration of 20 μM. VU036172 (50 mg/kg) reduces the size of cortical lesions, prevents neuronal degeneration, and improves sensorimotor deficits in the beam walk test in a mouse model of traumatic brain injury (TBI), indicating improved recovery of motor function.

### References

- Rodriguez, A.L., Grier, M.D., Jones, C.K., *et al.* Discovery of novel allosteric modulators of metabotropic glutamate receptor subtype 5 reveals chemical and functional diversity and in vivo activity in rat behavioral models of anxiolytic and antipsychotic activity. *Mol. Pharmacol.* **78(6)**, 1105-1123 (2010).
- Loane, D.J., Stoica, B.A., Tchantchou, F., *et al.* Novel mGluR5 positive allosteric modulator improves functional recovery, attenuates neurodegeneration, and alters microglial polarization after experimental traumatic brain injury. *Neurotherapeutics* **11(4)**, 857-869 (2014).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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