



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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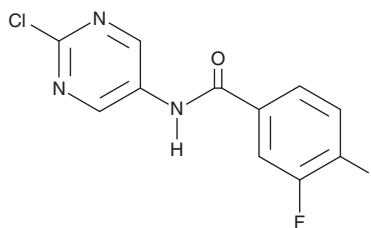
# PRODUCT INFORMATION



**ICA 069673**

Item No. 22995

**CAS Registry No.:** 582323-16-8  
**Formal Name:** N-(2-chloro-5-pyrimidinyl)-3,4-difluoro-benzamide  
**MF:** C<sub>11</sub>H<sub>6</sub>ClF<sub>2</sub>N<sub>3</sub>O  
**FW:** 269.6  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 267 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

ICA 069673 is supplied as a crystalline solid. A stock solution may be made by dissolving the ICA 069673 in the solvent of choice. ICA 069673 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of ICA 069673 in these solvents is approximately 30 mg/ml.

## Description

ICA 069673 is a heteromeric K<sub>v</sub>7 channel activator.<sup>1,2</sup> It is selective for K<sub>v</sub>7.2/7.3 over K<sub>v</sub>7.3/7.5 (EC<sub>50</sub>s = 0.69 and 14.3 μM, respectively) and also activates K<sub>v</sub>7.4, K<sub>v</sub>7.5, and heteromeric K<sub>v</sub>7.4/7.5 channels in a dose-dependent manner.<sup>2</sup> ICA 069673 has no activity against hERG, Na<sub>v</sub>1.5, and K<sub>v</sub>7.1 cardiac ion channels (IC<sub>50</sub>s = >30 μM).<sup>1</sup> Oral administration of ICA 069673 increases latency to first tonic-clonic seizure in the rat maximal electroshock and pentylenetetrazol-induced seizure models (ED<sub>50</sub>s = 1.5 and <1 mg/kg, respectively).<sup>1</sup> Formulations containing ICA 069673 are under clinical investigation for the treatment of epilepsy.

## References

1. Amato, G., Roeloffs, R., Rigdon, G.C., *et al.* N-Pyridyl and pyrimidine benzamides as KCNQ2/Q3 potassium channel openers for the treatment of epilepsy. *ACS Med. Chem. Lett.* **2(6)**, 481-484 (2011).
2. Brueggemann, L.I., Haick, J.M., Cribbs, L.L., *et al.* Differential activation of vascular smooth muscle Kv7.4, Kv7.5, and Kv7.4/7.5 channels by ML213 and ICA-069673. *Mol. Pharmacol.* **86(3)**, 330-341 (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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