



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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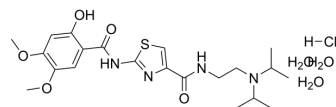
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## Acotiamide monohydrochloride trihydrate (Standard)

<b>Cat. No.:</b>	HY-B2155R
<b>CAS No.:</b>	773092-05-0
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>37</sub> ClN <sub>4</sub> O <sub>8</sub> S
<b>Molecular Weight:</b>	541.06
<b>Target:</b>	Cholinesterase (ChE)
<b>Pathway:</b>	Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Acotiamide (monohydrochloride trihydrate) (Standard) is the analytical standard of Acotiamide (monohydrochloride trihydrate). This product is intended for research and analytical applications. Acotiamide monohydrochloride trihydrate is an orally active, selective and reversible acetylcholinesterase (AChE) inhibitor, with IC <sub>50</sub> of 1.79 μM. Acotiamide monohydrochloride trihydrate can enhance gastric contractility and accelerate delayed gastric emptying. Acotiamide monohydrochloride trihydrate has the potential for the research of functional dyspepsia involving gastric motility dysfunction and intestinal inflammatory [1][2][3].
<b>IC<sub>50</sub> &amp; Target</b>	IC50: 1.79 μM (AChE)

### REFERENCES

- [1]. Hiroshi Yamawaki, et al. Acotiamide attenuates central urocortin 2-induced intestinal inflammatory responses, and urocortin 2 treatment reduces TNF-α productions in LPS-stimulated macrophage cell lines. *Neurogastroenterol Motil.* 2020 Aug;32(8):e13813.
- [2]. Matsunaga Y, et al. Acotiamide hydrochloride (Z-338), a new selective acetylcholinesterase inhibitor, enhances gastric motility without prolonging QT interval in dogs: comparison with cisapride, itopride, and mosapride. *J Pharmacol Exp Ther.* 2011 Mar;336(3):791-800.
- [3]. Kazuyoshi Y oshii, et al. Physiologically-Based Pharmacokinetic and Pharmacodynamic Modeling for the Inhibition of Acetylcholinesterase by Acotiamide, A Novel Gastroprokinetic Agent for the Treatment of Functional Dyspepsia, in Rat Stomach. *Pharmaceutical Research*, 33(2), 292–300.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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