



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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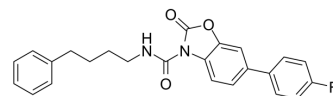
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## ARN14974

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-103592                                                                                      |
| CAS No.:           | 1644158-57-5                                                                                   |
| Molecular Formula: | C <sub>24</sub> H <sub>21</sub> FN <sub>2</sub> O <sub>3</sub>                                 |
| Molecular Weight:  | 404.43                                                                                         |
| Target:            | Ceramidase                                                                                     |
| Pathway:           | Metabolic Enzyme/Protease                                                                      |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

### BIOLOGICAL ACTIVITY

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | ARN14974, a benzoxazolone carboxamide, is a potent and systemically active inhibitors of intracellular acid ceramidase (IC <sub>50</sub> =79 nM) <sup>[1]</sup> .                                                                                                                                                                                                                                                                         |
| In Vitro    | ARN14974 (20 μM; 24 hours; SW403 and Raw 264.7 cells) inhibits acid ceramidase (AC) in a complex cellular environment, leading to the intended biochemical response, that is, increased ceramide and decreased sphingosine levels <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only.                                                                                     |
| In Vivo     | ARN14974 (10 mg/kg; i.p.; mice) causes a substantial reduction in AC activity in multiple organs, including brain, liver, heart, lungs, and kidney <sup>[1]</sup> .<br>ARN14974 (10 mg/kg; i.p.) quickly enters the bloodstream after a single intraperitoneal administration in mice, reaching a maximal plasma concentration, C <sub>max</sub> , of 1767.9 ng/mL and displaying a half-life time of 458 min in circulation. ARN14974 (1 |

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mg/kg; i.v.) shows a  $C_{\max}$  and a half-life time of 628 ng/mL and 72 min, respectively<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Pizzirani D, et al. Benzoxazolone carboxamides: potent and systemically active inhibitors of intracellular acid ceramidase. *Angew Chem Int Ed Engl.* 2015;54(2):485-489.

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

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