



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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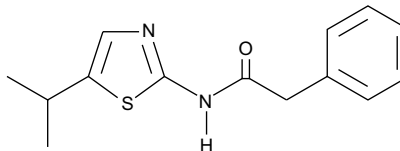
# Product Information



**CAY10554**

Item No. 10010301

**CAS Registry No.:** 267654-00-2  
**Formal Name:** N-[5-(1-methylethyl)2-thiazolyl]-benzeneacetamide  
**Synonym:** BML-259  
**MF:** C<sub>14</sub>H<sub>16</sub>N<sub>2</sub>OS  
**FW:** 260.4  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 275 nm



## Laboratory Procedures

For long term storage, we suggest that CAY10554 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10554 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10554 in an organic solvent purged with an inert gas. CAY10554 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of CAY10554 in these solvents is approximately 0.25 mg/ml in ethanol and approximately 30 mg/ml in DMSO and DMF.

CAY10554 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10554 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CAY10554 has a solubility of approximately 0.3 in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Cyclin-dependent kinases (CDKs) are key regulators of cell cycle progression and are therefore promising therapeutic targets for cancer and neurodegenerative diseases. CAY10554 is a potent inhibitor of Cdk5 and Cdk2, with IC<sub>50</sub> values of 64 and 98 nM, respectively.<sup>1</sup>

## Reference

1. Helal, C.J., Sanner, M.A., Cooper, C.B., *et al.* Discovery and SAR of 2-aminothiazole inhibitors of cyclin-dependent kinase 5/p25 as a potential treatment for Alzheimer's disease. *Bioorganic & Medicinal Chemistry Letters* **14**, 5521-5525 (2004).

## Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/10010301](http://www.caymanchem.com/catalog/10010301)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

### SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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