



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

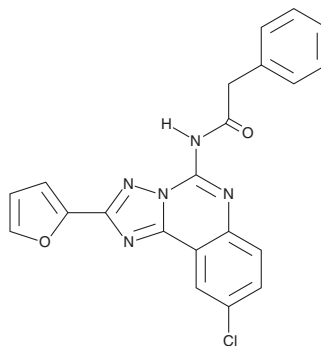
# PRODUCT INFORMATION



## MRS1220

Item No. 41015

**CAS Registry No.:** 183721-15-5  
**Formal Name:** N-[9-chloro-2-(2-furanyl)[1,2,4]triazolo[1,5-c]quinazolin-5-yl]-benzeneacetamide  
**Synonym:** NSC 695674  
**MF:** C<sub>21</sub>H<sub>14</sub>ClN<sub>5</sub>O<sub>2</sub>  
**FW:** 403.8  
**Purity:** ≥95%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years



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

### Laboratory Procedures

MRS1220 is supplied as a solid. A stock solution may be made by dissolving the MRS1220 in the solvent of choice, which should be purged with an inert gas. MRS1220 is slightly soluble (0.1-1 mg/ml) in acetonitrile and sparingly soluble (1-10 mg/ml) in chloroform.

### Description

MRS1220 is an adenosine A<sub>3</sub> receptor antagonist (K<sub>i</sub> = 0.65 nM for the human receptor).<sup>1</sup> It is selective for human adenosine A<sub>3</sub> receptors over rat adenosine A<sub>1</sub> and A<sub>2</sub> receptors (K<sub>i</sub>s = 305 and 52 nM, respectively). MRS1220 inhibits [<sup>35</sup>S]GTPγS binding in HEK293 cells expressing human adenosine A<sub>3</sub> receptors (IC<sub>50</sub> = 7.2 nM). *In vivo*, MRS1220 (0.15 mg/kg) decreases tumor growth and angiogenesis in a rat C6 glioma model.<sup>2</sup>

### References

1. Jacobson, K.A., Park, K.S., Jiang, J.L., *et al.* Pharmacological characterization of novel A<sub>3</sub> adenosine receptor-selective antagonists. *Neuropharmacology* **36(9)**, 1157-1165 (1997).
2. Rocha, R., Torres, A., Ojeda, K., *et al.* The adenosine A<sub>3</sub> receptor regulates differentiation of glioblastoma stem-like cells to endothelial cells under hypoxia. *Int. J. Mol. Sci.* **19(4)**, 1228 (2018).

#### 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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#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM