SZABO SCANDIC

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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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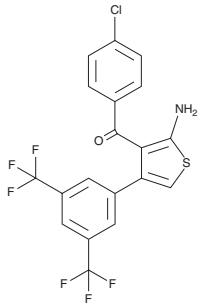
# PRODUCT INFORMATION

## MIPS521

*Item No. 37776*




**CAS Registry No.:** 1146188-19-3
**Formal Name:** [2-amino-4-[3,5-*bis*(trifluoromethyl)phenyl]-3-thienyl](4-chlorophenyl)-methanone
**MF:** $C_{19}H_{10}ClF_6NOS$
**FW:** 449.8
**Purity:** ≥98%
**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

MIPS521 is supplied as a solid. A stock solution may be made by dissolving the MIPS521 in the solvent of choice, which should be purged with an inert gas. MIPS521 is soluble in methanol.

### Description

MIPS521 is an adenosine $A_1$ receptor positive allosteric modulator.[1] It binds to adenosine $A_1$ receptors ($K_b$ = 11 µM) and enhances adenosine-induced inhibition of forskolin-induced cAMP production in CHO cells expressing recombinant human adenosine $A_1$ receptors when used at concentrations ranging from 0.3 to 30 µM. *In vivo*, MIPS521 (10 and 30 µg/animal) increases the mechanical paw withdrawal threshold in a rat model of neuropathic pain induced by partial sciatic nerve ligation.

### Reference

1. Draper-Joyce, C.J., R., B., J., W., *et al.* Positive allosteric mechanisms of adenosine A1 receptor-mediated analgesia. *Nature* **597(7877)**, 571-576 (2021).



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