



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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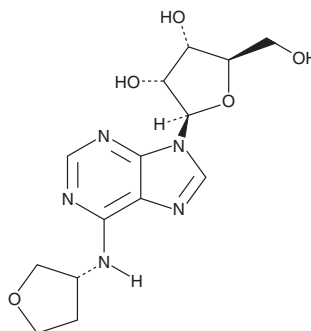
# PRODUCT INFORMATION



## Tecadenoson

Item No. 28449

**CAS Registry No.:** 204512-90-3  
**Formal Name:** N-[(3R)-tetrahydro-3-furanyl]-adenosine  
**Synonym:** CVT-510  
**MF:** C<sub>14</sub>H<sub>19</sub>N<sub>5</sub>O<sub>5</sub>  
**FW:** 337.3  
**Purity:** ≥95%  
**UV/Vis.:** λ<sub>max</sub>: 213, 268 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



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

### Laboratory Procedures

Tecadenoson is supplied as a crystalline solid. A stock solution may be made by dissolving the tecadenoson in the solvent of choice, which should be purged with an inert gas. Tecadenoson is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of tecadenoson in these solvents is approximately 30 mg/ml. Tecadenoson is also slightly soluble in ethanol.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of tecadenoson can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of tecadenoson in PBS, pH 7.2, is approximately 3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Tecadenoson is an adenosine A<sub>1</sub> receptor agonist (K<sub>i</sub> = 6.5 nM).<sup>1</sup> It is selective for adenosine A<sub>1</sub> over A<sub>2</sub> receptors (K<sub>i</sub> = 2,315 nM). Tecadenoson prolongs stimulus-His bundle potential (SH) intervals in isolated perfused guinea pig hearts (EC<sub>50</sub> = 40.6 nM). *In vivo*, tecadenoson induces PR interval prolongation in anesthetized guinea pigs (ED<sub>50</sub> = 0.9 µg/kg) and reduces heart rate in anesthetized rats in a dose-dependent manner, without affecting blood pressure.

### Reference

1. Cheung, J.W. and Lerman, B.B. CVT-510: A selective A<sub>1</sub> adenosine receptor agonist. *Cardiovasc. Drug Rev.* **21**(4), 277-292 (2003).

#### 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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