Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Tecadenoson

Catalog No: tcsc0016174

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
204512-90-3

Formula:
$C_{14}H_{19}N_5O_5$

Pathway:
GPCR/G Protein

Target:
Adenosine Receptor

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 155 mg/mL (459.49 mM)

Alternative Names:
CVT-510

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Observed Molecular Weight:
337.33

Product Description

Tecadenoson (CVT-510) is a selective **A1 adenosine receptor** agonist.

IC50 & Target: Target: A1 adenosine receptor[1]

In Vitro: In the atrial-paced isolated heart, Tecadenoson is approximately 5 fold more potent to prolong the stimulus-to-His bundle (S-H interval), a measure of slowing AV nodal conduction (EC_{50}=41 nM) than to increase coronary conductance (EC_{50}=200 nM). At concentrations of Tecadenoson (40 nM) and diltiazem (1 μM) that causes equal prolongation of S-H interval (~10 ms), diltiazem, but not Tecadenoson, significantly reduces left ventricular developed pressure (LVP) and markedly increases coronary conductance. Tecadenoson shortens atrial (EC_{50}=73 nM) but not the ventricular monophasic action potentials (MAP)[1].

In Vivo: In atrial-paced anaesthetized guinea-pigs, intravenous infusions of Tecadenoson and diltiazem causes nearly equal prolongations of P-R interval[1]. Tecadenoson (2, 5, 20 μg/kg i.p.) causes a rapid and sustained dose-dependent decrease in NEFA at doses that do not cause bradycardia. Tecadenoson given at 50 μg/kg causes a significant bradycardia (50% decrease in heart rate at 25 min[2].