

Product Data Sheet

Product Name: INNO-8875

Cat. No.: GC48621

Chemical Properties

Cas. No. 871108-05-3

SMILES O[C@H]1[C@](O[C@@H]([C@H]1O)CO[N+](O-)=O)([H])N2C3=NC=NC(NC4CCCC4)=C3N=C2

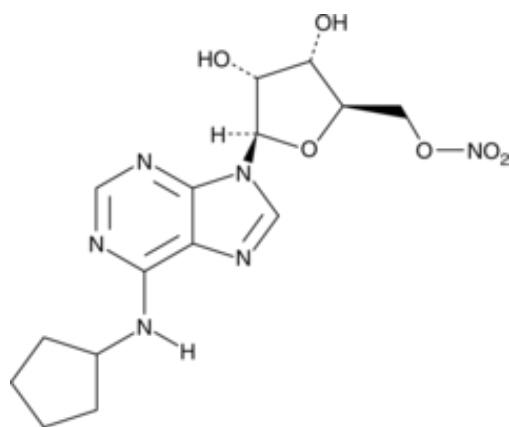
Formula C₁₅H₂₀N₆O₆ M.Wt 380.4

Solubility DMSO : 125 mg/mL (328.64 mM; Storage -20°C
Need ultrasonic)

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

INNO-8875 is an adenosine A₁ receptor agonist.^{1,2} It binds to adenosine A₁ receptors (K_i = 0.97 nM) and is greater than 10,000-fold selective for adenosine A₁ over A₂ receptors. Topical application of INNO-8875 (25 µg/eye) reduces intraocular pressure in a rabbit model of ocular hypertension.² INNO-8875 (1-50 µg/kg) decreases atrial refractoriness and heart rate, as well as slows atrioventricular nodal conduction, in anesthetized rats.¹

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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1. Mor, M., Shalev, A., Dror, S., et al. INO-8875, a highly selective A1 adenosine receptor agonist: Evaluation of chronotropic, dromotropic, and hemodynamic effects in rats. *J. Pharmacol. Exp. Ther.* 344(1):59-67(2012)
2. Kim, N., Crosson, C., Supuran, C., et al. INO-8875, an adenosine A1 agonist, in development for open-angle glaucoma reduces IOP in three rabbit models. *Invest. Ophthalmol. Vis. Sci.* 50(13):4061(2009)

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