

T-0509

## Chemical Properties

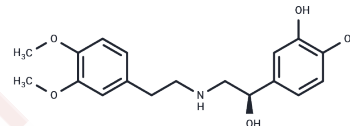
CAS No. : 96843-99-1

Formula: C<sub>18</sub>H<sub>23</sub>NO<sub>5</sub>

Molecular Weight: 333.38

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	T-0509 is a selective beta 1 receptor agonist that increases inotropy in canine ventricular muscle and selectively down-regulates rat cardiac beta 1-adrenoceptors.
Targets(IC50)	Adrenergic Receptor

## Solubility Information

Solubility	DMSO: 15 mg/mL (44.99 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9996 mL	14.9979 mL	29.9958 mL
5 mM	0.5999 mL	2.9996 mL	5.9992 mL
10 mM	0.300 mL	1.4998 mL	2.9996 mL
50 mM	0.060 mL	0.300 mL	0.5999 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Kurosawa H, et al. Selective beta 1-receptor full agonists, T-0509 and T-1583, increase the force monophasically and cyclic AMP biphasically in canine ventricular muscle. *J Cardiovasc Pharmacol.* 1990 Oct;16(4):646-53.
- Yamazaki J, et al. Hemodynamic and coronary vasodilative properties of a selective and full beta 1-adrenoceptor agonist, T-0509, in comparison with isoproterenol in anesthetized dogs. *J Cardiovasc Pharmacol.* 1994 Aug;24(2): 209-15.

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