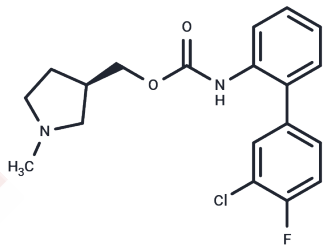
# Data Sheet (Cat.No.T9771)

TargetMol

## Velufenacin

### Chemical Properties



CAS No. : 1648737-78-3

Formula: C19H20ClFN2O2

Molecular Weight: 362.83

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 | Velufenacin is an antagonist of muscarinic receptor[1]. |
| Targets(IC50) | AChR |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 90 mg/mL (248.05 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.1 mM),Sonication is recommended.<br>*Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.7561 mL | 13.7806 mL | 27.5611 mL |
| 5 mM | 0.5512 mL | 2.7561 mL | 5.5122 mL |
| 10 mM | 0.2756 mL | 1.3781 mL | 2.7561 mL |
| 50 mM | 0.0551 mL | 0.2756 mL | 0.5512 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

International Nonproprietary Names for Pharmaceutical Substances (INN). WHO Drug Information, Vol. 33, No. 4, 2019.

Lee MJ, et al. Pharmacological characterization of DA-8010, a novel muscarinic receptor antagonist selective for urinary bladder over salivary gland. Eur J Pharmacol. 2019 Jan 15;843:240-250.