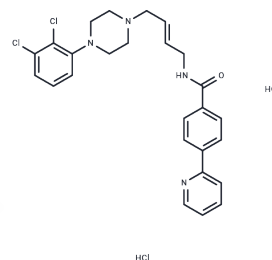


## PG 01037 dihydrochloride

### Chemical Properties

CAS No. :	675599-62-9
Formula:	C <sub>26</sub> H <sub>28</sub> Cl <sub>4</sub> N <sub>4</sub> O
Molecular Weight:	554.34
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	PG 01037 dihydrochloride (PG-01037 2HCl) is a potent and selective dopamine D3 receptor antagonist with a K <sub>i</sub> of 0.7 nM.
Targets(IC50)	Dopamine Receptor

### Solubility Information

Solubility	DMSO: 25 mg/mL (45.1 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (3.61 mM), Sonication is recommended. <i>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.</i>

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8039 mL	9.0197 mL	18.0395 mL
5 mM	0.3608 mL	1.8039 mL	3.6079 mL
10 mM	0.1804 mL	0.902 mL	1.8039 mL
50 mM	0.0361 mL	0.1804 mL	0.3608 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

Grundt P, et al. Novel heterocyclic trans olefin analogues of N-{4-[4-(2,3-dichlorophenyl)piperazin-1-yl]butyl} arylcarboxamides as selective probes with high affinity for the dopamine D3 receptor. J Med Chem. 2005 Feb 10;48 (3):839-48.

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