

## NPPB

## Chemical Properties

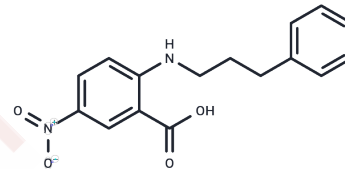
CAS No. : 107254-86-4

Formula: C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 300.31

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	NPPB is a chloride channel blocker with IC <sub>50</sub> of 80 nM .
Targets(IC <sub>50</sub> )	Chloride channel
In vitro	NPPB has been shown to activate the GPR35-Gαi/o and GPR35-Gα16 pathways in HEK293 cells, inducing intracellular calcium mobilization[1].

## Solubility Information

Solubility	DMSO: 150 mg/mL (499.48 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: 4 mg/mL (13.32 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

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	1mg	5mg	10mg
1 mM	3.3299 mL	16.6495 mL	33.2989 mL
5 mM	0.666 mL	3.3299 mL	6.6598 mL
10 mM	0.333 mL	1.6649 mL	3.3299 mL
50 mM	0.0666 mL	0.333 mL	0.666 mL

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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

Taniguchi Y , Tonai-Kachi H , Shinjo K . 5-Nitro-2-(3-Phenylpropylamino)benzoic Acid Is a GPR35 Agonist[J]. Pharmacology, 2008, 82(4):245-249.

Li J , Chang Q , Li X , et al. Enhancement of an outwardly rectifying chloride channel in hippocampal pyramidal neurons after cerebral ischemia[J]. Brain Research, 2016, 1644:107-117.

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