NPEC-caged-dopamine

Cat. No.: HY-103427

CAS No.: 1257326-23-0

Molecular Formula: $C_{17}H_{18}N_2O_6$

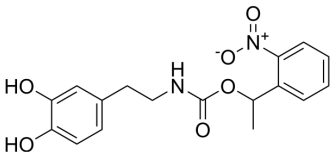
Molecular Weight: 346.33

Target: Dopamine Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (360.93 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.8874 mL	14.4371 mL	28.8742 mL
5 mM	0.5775 mL	2.8874 mL	5.7748 mL
10 mM	0.2887 mL	1.4437 mL	2.8874 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NPEC-caged-dopamine is a caged version of dopamine. NPEC-caged-Dopamine was used by applying focal photolysis with UV light (360 nm) to releases dopamine, which leads to D1 receptor activation[1].

REFERENCES

[1]. Liliana R V Castro, et al. Striatal neurones have a specific ability to respond to phasic dopamine release. J Physiol. 2013 Jul 1;591(13):3197-214.

[2]. Alba Bellot-Saez, et al. Neuromodulation of Astrocytic K+ Clearance. Int J Mol Sci. 2021 Mar 3;22(5):2520.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA