

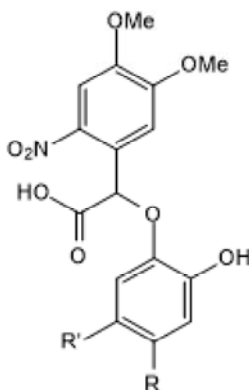
Product Name: CNV Dopamine

Catalog No.: 6354

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₀N₂O₈.1¼H₂O
Batch Molecular Weight: 414.88
Physical Appearance: Pale yellow solid
Solubility: DMSO to 100 mM
water to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



R=H and R' = -CH₂CH₂NH₂ or
R = -CH₂CH₂NH₂ and R' = H

2. ANALYTICAL DATA

HPLC: Shows >98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.11	5.47	6.75
Found	52.17	5.34	6.8

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Carboxynitroveratryl (CNV)-caged dopamine (Cat. No. 3548); releases dopamine upon ultraviolet light stimulation (365 nm). Induces dopaminergic currents upon photolysis in brain slices expressing wild-type or GFP-labeled D₂ receptors. Displays no decrease in current (rundown) with UV light flash duration of up to 100 ms. Pharmacologically inactive prior to photolysis.

Physical and Chemical Properties:

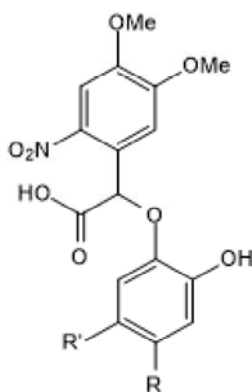
Batch Molecular Formula: C₁₈H₂₀N₂O₈.1¼H₂O

Batch Molecular Weight: 414.88

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



R=H and R'= -CH₂CH₂NH₂ or

R= -CH₂CH₂NH₂ and R'=H

References:

Robinson et al (2017) Desensitized D₂ autoreceptors are resistant to trafficking. *Sci.Rep.* 7 4379. PMID: 28663556.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

water to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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