

**Product Name:** DMNPE-caged ATP diammonium salt

**Catalog No.:** 5157

**Batch No.:** 2

**IUPAC Name:** Adenosine 5'-triphosphate *P*'-[1-(4,5-dimethoxy-2-nitrophenyl)ethyl] ester diammonium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>27</sub>N<sub>6</sub>O<sub>17</sub>P<sub>3</sub>.2NH<sub>3</sub>.

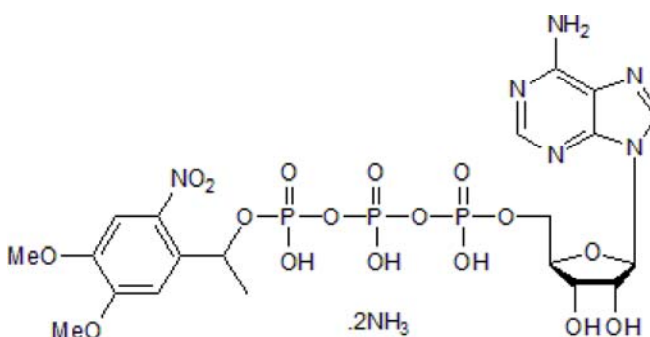
**Batch Molecular Weight:** 750.44

**Physical Appearance:** Pale yellow solid

**Solubility:** water to 100 mM  
DMSO to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	32.01	4.43	14.93
Found	31.64	4	15.09

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

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**IUPAC Name:** Adenosine 5'-triphosphate *P*"-[1-(4,5-dimethoxy-2-nitrophenyl)ethyl] ester diammonium salt

**Description:**

DMNPE-caged ATP diammonium salt is a DMNPE-caged ATP; quantum yield is 0.07. Brain penetrant.

**Physical and Chemical Properties:**

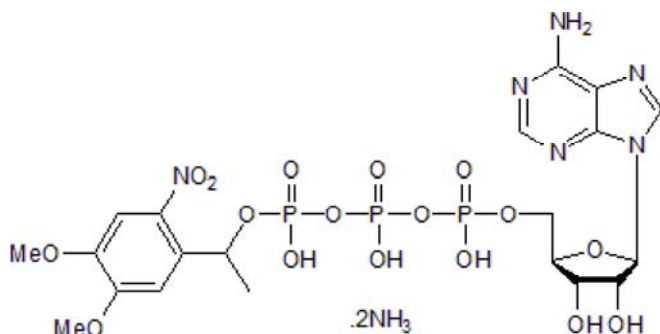
Batch Molecular Formula: C<sub>20</sub>H<sub>27</sub>N<sub>6</sub>O<sub>17</sub>P<sub>3</sub>.2NH<sub>3</sub>.

Batch Molecular Weight: 750.44

Physical Appearance: Pale yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C. This product is packaged under an inert atmosphere.

**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:**

water to 100 mM

DMSO to 50 mM

Solutions may appear hazy.

**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.

**References:**

**Jensen et al** (2017) Detailed characterization of the in vitro pharmacological and pharmacokinetic properties of *N*-(2-hydroxybenzyl)-2,5-dimethoxy-4-cyanophenylethylamine (25CN-NBOH), a highly selective and brain-penetrant 5-HT<sub>2A</sub> receptor agonist. *J.Pharmacol.Exp.Ther.* **36** 441. PMID: 28360333.

**Ellis-Davies** (2007) Caged compounds: photorelease technology for control of cellular chemistry and physiology. *Nat.Methods* **4** 619. PMID: 17664946.

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