

## Adenosine 5'-triphosphate P3-[1-(2-nitrophenyl)ethyl ester] disodium salt

Cat. No. CSUB-0083

Lot. No. (See product label)

### Introduction

**Applications** Adenosine 5'-triphosphate  $\gamma$ -(1-[2-nitrophenyl]ethyl) ester ("Caged" ATP) is used as a photolyzing substrate of luciferase-mediated firefly bioluminescence and other ATP-dependent photolytic processes. Caged ATP has also been used to study the dynamics of ATP-driven linear molecular motors such as myosin Va. Caged ATP is used to study intracellular mechanisms; Irradiation with a short light pulse of 360 nm wavelength releases the parent compound from its cage resulting in a time- and quantity-specific concentration increase of ATP within the cell; Relaxation of muscle fibres by photolysis of caged ATP.

**Synonyms** Caged ATP'; NPE caged ATP

### Product Information

**CAS No.** 171800-68-3

**Molecular Formula** C<sub>18</sub>H<sub>21</sub>N<sub>6</sub>Na<sub>2</sub>O<sub>15</sub>P<sub>3</sub>

**Molecular Weight** 700.29

**Substrates** ATPase

### Storage and Shipping Information

**Storage** -20°C