

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 γ -(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 ATP¹; NPE caged ATP

Product Information

CAS No. 171800-68-3

Molecular Formula C₁₈H₂₁N₆Na₂O₁₅P₃

Molecular Weight 700.29

Substrates ATPase

Storage and Shipping Information

Storage -20°C