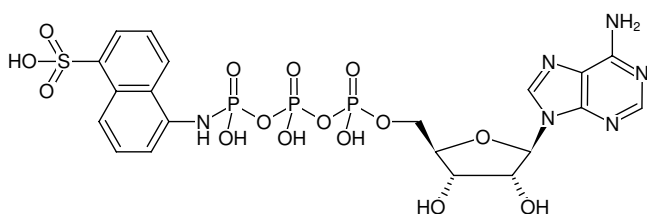


**ATP- $\gamma$ -AmNS**Adenosine-5'-triphosphate- $\gamma$ -(sulfo-1-naphthyl)amide, Triethylammonium salt

Cat. No.	Amount
NU-1616S	150 $\mu$ l (5 mM)
NU-1616L	5 x 150 $\mu$ l (5 mM)

Structural formula of ATP- $\gamma$ -AmNS**For general laboratory use.****Shipping:** shipped on gel packs**Storage Conditions:** store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

**Shelf Life:** 12 months after date of delivery**Molecular Formula:** C<sub>20</sub>H<sub>23</sub>N<sub>6</sub>O<sub>15</sub>P<sub>3</sub>S (free acid)**Molecular Weight:** 712.41 g/mol (free acid)**Exact Mass:** 712.02 g/mol (free acid)**Purity:**  $\geq$  95 % (HPLC)**Form:** solution in water**Color:** colorless to slightly yellow**Concentration:** 5.0 mM - 5.5 mM**pH:** 7.5  $\pm$  0.5**Spectroscopic Properties:**  $\lambda_{\max}$  323 nm,  $\epsilon$  4.2 L mmol<sup>-1</sup> cm<sup>-1</sup> (Tris-HCl pH 7.5),  $\lambda_{\text{exc}}$  323 nm,  $\lambda_{\text{em}}$  461 nm**Applications:**Quenching of protein fluorescence<sup>[1]</sup>Identification of binding sites in E-coli isocitrate dehydrogenase kinase<sup>[1]</sup>Estimation of ADP-binding sites in membrane bound adenine-nucleotide carrier<sup>[2]</sup>Substrate for snake venom phosphodiesterase<sup>[3]</sup>Intramolecular energy transfer<sup>[4]</sup>E-coli isocitrate dehydrogenase kinase/phosphatase<sup>[1]</sup>**Selected References:**

[1] Rittinger *et al.* (1996) Escherichia coli isocitrate dehydrogenase kinase/phosphatase. Overproduction and kinetics of interaction with its substrates by using intrinsic fluorescence and fluorescent nucleotide analogues. *Eur. J. Biochem.* **237** (1):247.

[2] Block *et al.* (1984) Substrate-site interactions in the membrane-bound adenine-nucleotide carrier as disclosed by ADP and ATP analogs. *Biochim Biophys Acta.* **767** (2):369.

[3] Pollack *et al.* (1982) Fluorescent nucleotide triphosphate substrates for snake venom phosphodiesterase. *Anal. Biochem.* **127** (1):81.

[4] Yarbrough *et al.* (1980) Stacking interactions in fluorescent nucleotide analogs containing 1-aminonaphthalene-5-sulfonate at the phosphoryl terminus. *J. Biol. Chem.* **255** (20):9907.