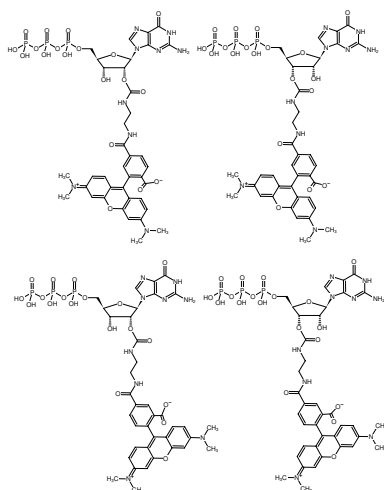


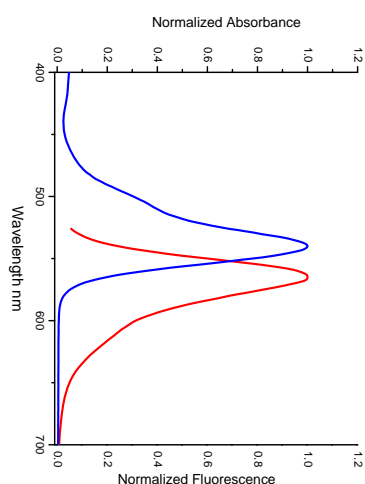
**EDA-GTP-5/6-TAMRA**

2'/3'-O-(2-Aminoethyl-carbamoyl)-Guanosine-5'-triphosphate, labeled with 5/6-TAMRA, Triethylammonium salt

Cat. No.	Amount
NU-820-TAM	160 µl (1 mM)



Structural formula of EDA-GTP-5/6-TAMRA



excitation and emission spectrum of 5/6-TAMRA

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: C₃₈H₄₂N₉O₁₉P₃ (free acid)

Molecular Weight: 1021.72 g/mol (free acid)

Exact Mass: 1021.19 g/mol (free acid)

Purity: ≥ 95 % (HPLC)

Form: solution in water

Color: pink to red

Concentration: 1.0 mM - 1.1 mM

pH: 7.5 ± 0.5

Spectroscopic Properties: λ_{exc} 545 nm, λ_{em} 575 nm, ε 90.0 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5)

Applications:

Microtubule Gliding Assay ^[1,2]

Selected References:

[1] Martin (2013) Measuring microtubule persistence length using a microtubule gliding assay. *Methods Cell Biol.* **115**:13.

[2] Martin *et al.* (2012) Flexural rigidity measurements of biopolymers using gliding assays. *J. Vis. Exp.* **69**.

Fujimura *et al.* (2017) Dissection of the angle of single fluorophore attached to the nucleotide in corkscrewing microtubules. *Biochem. Biophys. Res. Commun.* **485** (3):614.

Lang *et al.* (2017) Actin ADP-ribosylation at Threonine148 by Photorehabdus luminescens toxin TccC3 induces aggregation of intracellular F-actin. *Cell. Microbiol.* **19** (1): e12636.

Anderson *et al.* (2011) A fluorescent GTP analog as a specific, high-precision label of microtubules. *BioTechniques* **51** (1):43.

Ahmadian *et al.* (2005) Monitoring the real-time kinetics of the hydrolysis reaction of guanine nucleotide-binding proteins. *Biol. Chem.* **386**:1105.