

Product Name: Dansyl-NECA

Catalog No.: 5122

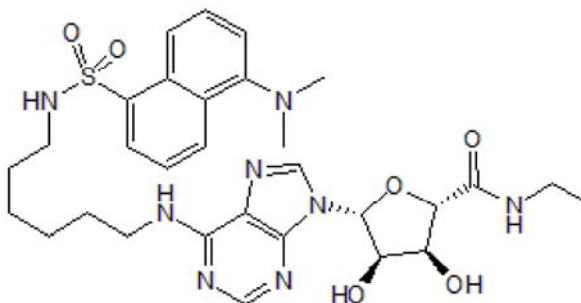
Batch No.: 1

CAS Number: 219982-12-4

IUPAC Name: 1-Deoxy-1-[6-[[[5-dimethylamino)-1-naphthalenyl]sulfonyl]amino]hexyl]amino]-9H-purin-9-yl]-N-ethyl-β-D-ribofuranuronamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₄₀N₈O₆S
Batch Molecular Weight: 640.75
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.23	6.29	17.49
Found	56.09	6.34	17.21

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

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Description:

High affinity and selective fluorescent adenosine A₁ receptor agonist (K_i values are 27, 3600 and 4300 nM for A₁, A₃ and A₂ receptors, respectively). Permits visualization of A₁ receptors in the rat cerebellar cortex.

Physical and Chemical Properties:

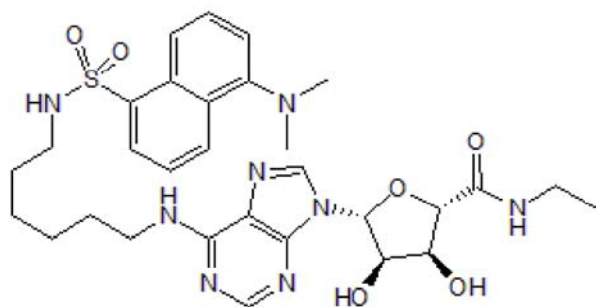
Batch Molecular Formula: C₃₀H₄₀N₈O₆S

Batch Molecular Weight: 640.75

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

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:

DMSO to 100 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Kozma et al (2013) Fluorescent ligands for adenosine receptors. *Bioorg. Med. Chem. Lett.* **23** 26. PMID: 23200243.

Macchia et al (1998) Fluorescent probes for adenosine receptors: synthesis and biology of N⁶-dansylaminoalkyl-substituted NECA derivatives. *Bioorg. Med. Chem. Lett.* **8** 3223. PMID: 9873707.

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