

**Product Name:** Fluorescein-NAD<sup>+</sup>

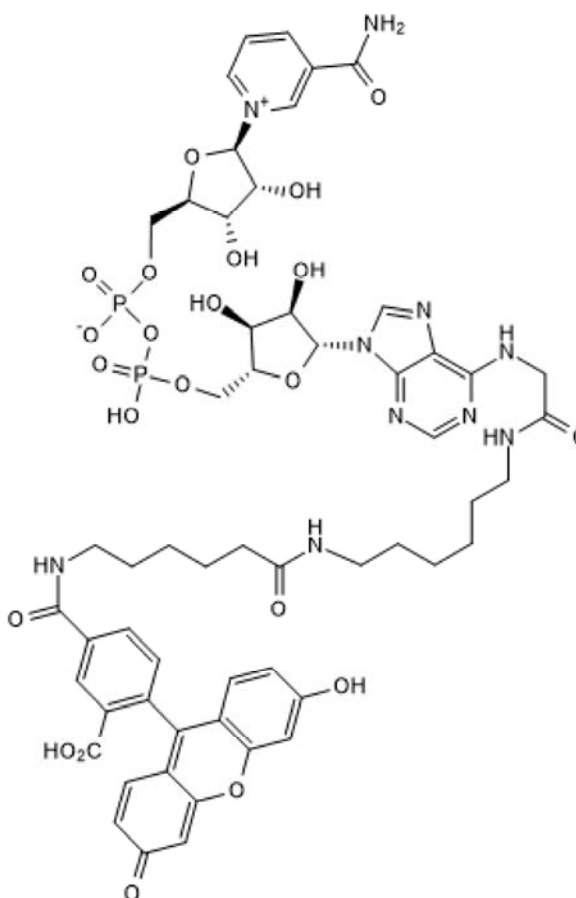
**Catalog No.:** 6574

**Batch No.:** 1

**IUPAC Name:**  $\beta$ -Nicotinamide-*N*<sup>6</sup>-[2-[[6-[fluorescein]-amino]-2-oxohexyl-hexyl]amino]-2-oxoethyl]adenine dinucleotide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>56</sub>H<sub>64</sub>N<sub>10</sub>O<sub>22</sub>P<sub>2</sub>  
**Batch Molecular Weight:** 1291.11  
**Physical Appearance:** Yellow solution  
**Solubility:** Soluble in water (supplied pre-dissolved at a concentration of 0.25mM)  
**Storage:** Store at -80°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**Mass Spectrum:** Consistent with structure

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

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**Description:**

Fluorescein NAD<sup>+</sup> is a substrate for ADP-ribosylation, providing a convenient non-isotopic alternative to radiolabelled NAD for use in PARP assays. Allows direct measurement of NAD-dependent enzymes, such as PARP, by fluorescence microscopy. This product is a replacement for R&D Systems product 4673-500-01 81 µg is supplied as 250 µl of a 0.25 mM solution in water.

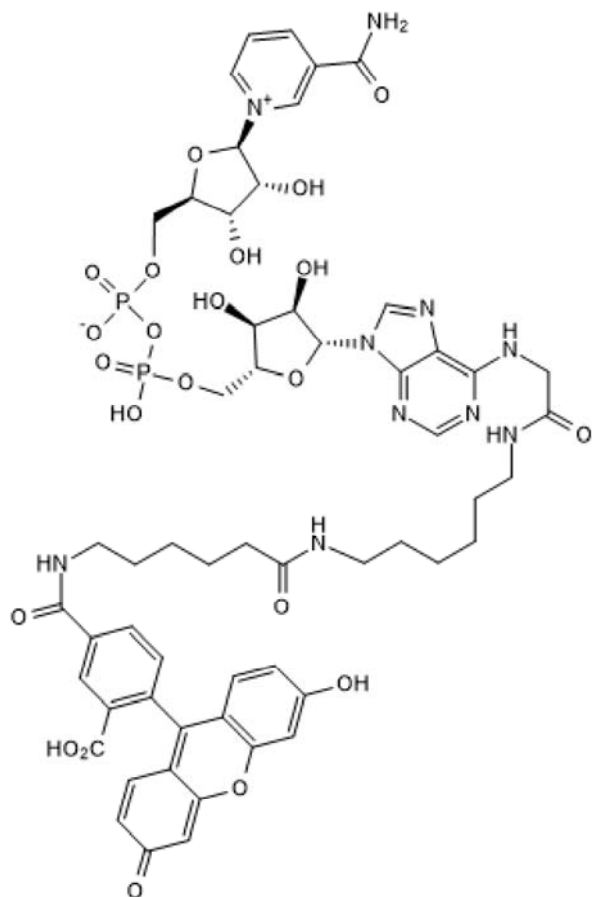
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>56</sub>H<sub>64</sub>N<sub>10</sub>O<sub>22</sub>P<sub>2</sub>

Batch Molecular Weight: 1291.11

Physical Appearance: Yellow solution

**Batch Molecular Structure:**



**Storage:** Store at -80°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:**

Soluble in water (supplied pre-dissolved at a concentration of 0.25mM)

**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.

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