

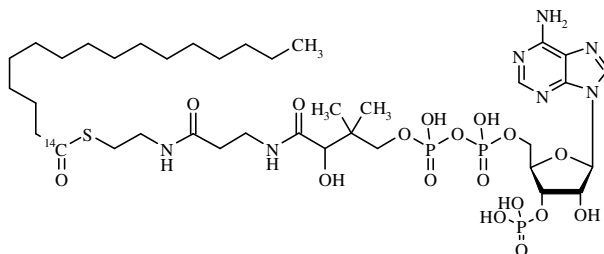
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## PALMITOYL COENZYME A, [PALMITOYL-1-<sup>14</sup>C]-

**Product Number: NEC555**

### LOT SPECIFIC INFORMATION

Lot Number:	2532657
Specific Activity:	60 mCi/mmol
	2220 MBq/mmol
Production Date:	27-Jun-2019



M.W. 1006.0  
C<sub>37</sub>H<sub>66</sub>N<sub>7</sub>O<sub>17</sub>P<sub>3</sub>S

**PACKAGING:** 0.02 mCi/ml (0.74 MBq/ml) in 0.1M sodium acetate buffer (pH 6), shipped in dry ice.

### STABILITY AND STORAGE RECOMMENDATIONS:

- When palmitoyl coenzyme A, [palmitoyl-1-<sup>14</sup>C]- is stored at -20°C in its original solvent and at its original concentration, the rate of decomposition is initially 1% for 3 months from date of purification. Stability is nonlinear and not correlated to isotope half-life. Lot to lot variation may occur.
- Optimal storage of NEC-555 is at -20°C and under acidic conditions. This compound degrades rapidly above pH 8.5. In order to maximize solubility when assaying, all assays should be performed in 50% THF using silanized glassware and pipettes.
- To maintain product purity, this sample should be slowly thawed at 4°C. Repeated freezing and thawing should be avoided. If the entire amount will not be used at once, it is recommended that the product be thawed at 4°C, aliquoted into samples of an appropriate size and immediately refrozen at -20°C.

**SPECIFIC ACTIVITY RANGE:** 40-60 mCi/mmol (1480-2220 MBq/mmol)

**RADIOCHEMICAL PURITY:** This product was initially found to be greater than 95% when determined by the following method. The rate of decomposition can accelerate. It is advisable to check purity prior to use:

High pressure liquid chromatography using either of the following:

1. Isocratic elution on a Luna C8 column with 20mM potassium phosphate pH 5.3 : acetonitrile (1:1).
2. Isocratic elution on a Zorbax RX-C8 column with 1% triethyl ammonium acetate pH 4 : acetonitrile (1:1).

**CHEMICAL PURITY:** Determined by ultraviolet spectrophotometry at pH 7.0 in 0.1M potassium phosphate buffer. Values observed fall into the published range for absorbance ratios.

**QUALITY CONTROL:** The radiochemical purity of palmitoyl coenzyme A, [palmitoyl-1-<sup>14</sup>C]- is checked at appropriate intervals using the first listed chromatography method. It is recommended to dilute the labeled material directly in 100% Solvable™ (NEF-910) to obtain an accurate assay.

**PREPARATIVE PROCEDURE:** Palmitoyl coenzyme A, [palmitoyl-1-<sup>14</sup>C]- is prepared from palmitic acid, [1-<sup>14</sup>C]- by a procedure modified from that of Seubert (1).

**REFERENCE:** W. Seubert, *Biochemical Preparations*, 7, (1960).

**HAZARD INFORMATION:** WARNING: This product contains a chemical known to the state of California to cause cancer

PerkinElmer, Inc.  
549 Albany Street  
Boston, MA 02118 USA  
P: (800) 762-4000 or (+1) 203-925-4602  
[www.perkinelmer.com/nenradiochemicals](http://www.perkinelmer.com/nenradiochemicals)

For a complete listing of our global offices, visit [www.perkinelmer.com/ContactUs](http://www.perkinelmer.com/ContactUs)

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NEC555-REV-02

