

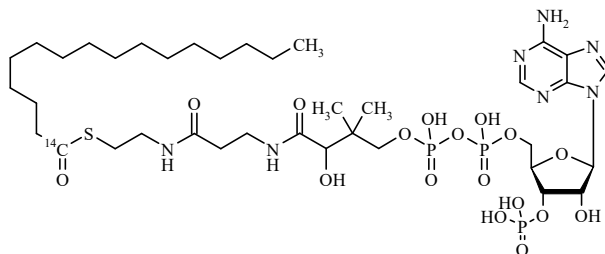
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PALMITOYL COENZYME A, [PALMITOYL-1-¹⁴C]-

Product Number: NEC555

LOT SPECIFIC INFORMATION

Lot Number:	2831611
Specific Activity:	60 mCi/mmol
	2220 MBq/mmol
Production Date:	17-Feb-2021



M.W. 1006.0
C₃₇H₆₆N₇O₁₇P₃S

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-1-¹⁴C]- 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-1-¹⁴C]- 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-1-¹⁴C]- is prepared from palmitic acid, [1-¹⁴C]- 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

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NEC555-REV-02

