

Product Information



Palmitoyl Alkyne-Coenzyme A (trifluoroacetate salt)

Item No. 15968

Formal Name: 2,2,2-trifluoroacetic acid compound with S-(2-(3-(((2R)-4-((((((2R,3S,4S,5R)-5-(6-amino-9H-purin-9-yl)-4-hydroxy-3-(phosphonooxy)tetrahydrofuran-2-yl)methoxy)(hydroxy)phosphoryl)oxy)(hydroxy)phosphoryl)oxy)-2-hydroxy-3,3-dimethylbutanamido)propanamido)ethyl)hexadec-15-ynethioate

Synonyms: 15-hexadecynoyl-CoA, Palmitoyl Alkyne-CoA, Click Tag™ Palmitoyl Alkyne-Coenzyme A (trifluoroacetate salt)

MF: C₃₇H₆₂N₇O₁₇P₃S • CF₃COOH

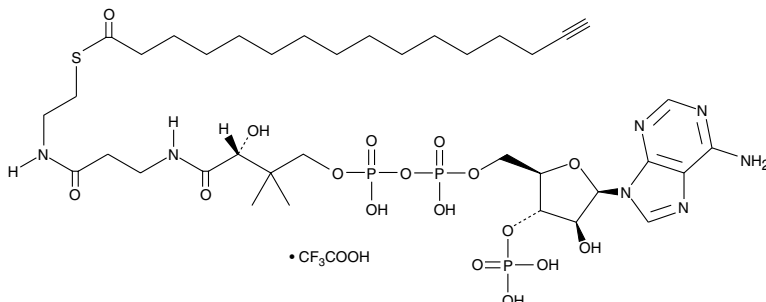
FW: 1,115.9

Purity: ≥95%

Stability: ≥2 years at -20°C

Supplied as: A crystalline solid

UV/Vis.: λ_{max}: 258 nm



Laboratory Procedures

For long term storage, we suggest that palmitoyl alkyne-coenzyme A (palmitoyl alkyne-CoA) (trifluoroacetate salt) be stored as supplied at -20°C. It should be stable for at least two years.

Palmitoyl alkyne-CoA (trifluoroacetate salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the palmitoyl alkyne-CoA (trifluoroacetate salt) in the solvent of choice. Palmitoyl alkyne-CoA (trifluoroacetate salt) is soluble in water at a concentration of approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Acyl-CoA thioesters are used by a variety of physiological pathways, including energy production by β-oxidation in mitochondria and peroxisomes and the biosynthesis of triacylglycerols, phospholipids, and cholesterol esters.¹ In addition, palmitoyl CoA serves as a substrate for palmitoylation, a post-translational protein modification in which a protein acyltransferase transfers the palmitoyl group to a free thiol on target proteins.² Palmitoyl alkyne-CoA is an ω-alkynylated form of palmitoyl CoA. The terminal alkyne group allows the use of click chemistry linking reactions to label or pull down compounds that interact with palmitoyl CoA or, after palmitoyl transfer, the acyl group. Specifically, palmitoyl alkyne-CoA may be useful in assessing the *in vitro* palmitoylation of proteins.

References

1. Waku, K. Origins and fates of fatty acyl-CoA esters. *Biochim. Biophys. Acta.* **1124**(2), 101-111 (1992).
2. Budde, C., Schoenfish, M.J., Linder, M.E., et al. Purification and characterization of recombinant protein acyltransferases. *Methods* **40**(2), 143-150 (2006).

Related Products

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