
Product Data Sheet

Product Name: AMARA peptide

Cat. No.: GC30514

Chemical Properties

Cas. No. 163560-19-8

SMILES Ala-Met-Ala-Arg-Ala-Ala-Ser-Ala-Ala-Ala-Leu-Ala-Arg-Arg-Arg

Formula C₆₂H₁₁₅N₂₇O₁₇S M.Wt 1542.81

Solubility Soluble in Water Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

AMARA peptide is a synthetic peptide substrate for AMP-activated protein kinase (AMPK).¹ It contains a serine at position seven that is subject to phosphorylation by AMPK and has been used to monitor AMPK activity *in vitro* and *in vivo*.^{1,2}

1. Dale, S., Wilson, W.A., Edelman, A.M., et al. Similar substrate recognition motifs for mammalian AMP-activated protein kinase, higher plant HMG-CoA reductase kinase-A, yeast SNF1, and mammalian calmodulin-dependent protein kinase IFEBS Lett. 361(2-3)191-195(1995) 2. Rybakowska, I.M., Slominska, E.M., Romaszko, P., et al. AMP-regulated protein kinase activity in the hearts of mice treated with low- or high-fat diet measured using novel LC-MS method Mol. Cell. Biochem. 404(1-2)5-10(2015)

Caution: Product has not been fully validated for medical applications. For research use only.

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