

Product Data Sheet

Product Name: Syntide 2

Cat. No.: GC33732

Chemical Properties

Cas. No. 108334-68-5

SMILES Pro-Leu-Ala-Arg-Thr-Leu-Ser-Val-Ala-Gly-Leu-Pro-Gly-Lys-Lys

Formula $C_{68}H_{122}N_{20}O_{18}$ M.Wt 1507.82

Solubility Water: Soluble 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

PLARTLSVAGLPGKK

Background

Syntide 2 is recognized as a substrate by Ca^{2+} /calmodulin-dependent protein kinase II (CaMKII) with a K_i of 12 μ M.

The sequence of syntide-2 (pro-leu-ala-arg-thr-leu-ser-val-ala-gly-leu-pro-gly-lys-lys) is homologous

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

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to phosphorylation site 2 in glycogen synthase. The relative V_{max}/K_m ratios of the known Ca^{2+} -dependent protein kinases for syntide-2 are determined to be as follows: protein kinase II, 100; protein kinase C, 22; phosphorylase kinase, 2; myosin light chain kinase, 0.005[1].

[1]. Hashimoto Y, et al. Calcium . calmodulin-dependent protein kinase II and calcium . phospholipid-dependent protein kinase activities in rat tissues assayed with a synthetic peptide. Arch Biochem Biophys. 1987 Feb 1;252(2):418-25.

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