



LKT Laboratories, Inc.

## Syntide 2

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### Product Information

Product ID S9754

CAS No. 108334-68-5

**Chemical Name**

**Synonym**

Formula  $C_{68}H_{122}N_{20}O_{18}$

Formula Wt. 1507.85

**Melting Point**

Purity  $\geq 95\%$

Solubility Soluble in water, 1% acetic acid (1 mg/mL), DMSO.

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description** Syntide 2 is a synthetic 15-amino acid peptide. Syntide 2 is a substrate of  $Ca^{2+}$ -dependent protein kinase (CDPK), CaMKII, PKC, and other kinases involved in  $Ca^{2+}$  signaling. Syntide 2 is phosphorylated by glutathione S-transferase and is involved in wound-induced signaling cascades.

H-Pro-Leu-Ala-Arg-Thr-Leu-Ser-Val-Ala-Gly-Leu-Pro-Gly-Lys-Lys-OH

**Bulk quantities available upon request**

Product ID	Size
S9754	1 mg
S9754	2 mg
S9754	5 mg

**References** Lanteri ML, Pagnussat GC, Lamattina L. Calcium and calcium-dependent protein kinases are involved in nitric oxide- and auxin-induced adventitious root formation in cucumber. *J Exp Bot.* 2006;57(6):1341-51. PMID: 16531462.

Szczegielniak J, Klimecka M, Liwosz A, et al. A wound-responsive and phospholipid-regulated maize calcium-dependent protein kinase. *Plant Physiol.* 2005 Dec;139(4):1970-83. PMID: 16299185.

Ishida A, Kameshita I, Okuno S, et al. A novel highly specific and potent inhibitor of calmodulin-dependent protein kinase II. *Biochem Biophys Res Commun.* 1995 Jul 26;212(3):806-12. PMID: 7626114.

Hashimoto Y, Soderling TR. 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. PMID: 3028265.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.