

Product Information

Product ID S9775

CAS No. 137181-56-7

Chemical Name

Synonym

Formula C₈₅H₁₄₄N₂₆O₂₈S

Formula Wt. 2010.32

Melting Point

Purity ≥95%

Solubility

Store Temp -20°C

Ship Temp Ambient

Description Systemin is an 18-amino acid peptide hormone originally found in the leaves of tomato plants, as well as other plants in the *Solanaceae* family. Systemin increases expression of defense-related genes and gene products. Systemin regulates synthesis of jasmonic acid, which modulates wound-induced synthesis of protease inhibitors. Systemin may also bind DNA.

H-Ala-Val-Gln-Ser-Lys-Pro-
Pro-Ser-Lys-Arg-Asp-Pro-
Pro-Lys-Met-Gln-Thr-Asp-OH

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S9775	0.5 mg	\$113.20
S9775	1 mg	\$192.20
S9775	2.5 mg	\$340.20

References Pearce G. Systemin, hydroxyproline-rich systemin and the induction of protease inhibitors. *Curr Protein Pept Sci.* 2011 Aug;12(5):399-408. PMID: 21418016.

Bing T, Chang T, Yang X, et al. G-quadruplex DNA aptamers generated for systemin. *Bioorg Med Chem.* 2011 Jul 15;19(14):4211-9. PMID: 21715176.

Sun JQ, Jiang HL, Li CY. Systemin/Jasmonate-mediated systemic defense signaling in tomato. *Mol Plant.* 2011 Jul;4(4):607-15. PMID: 21357647.

Pearce G, Bhattacharya R, Chen YC. Peptide signals for plant defense display a more universal role. *Plant Signal Behav.* 2008 Dec;3(12):1091-2. PMID: 19704502.

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