

cyclo(L-Pro-L-Tyr)

Chemical Properties

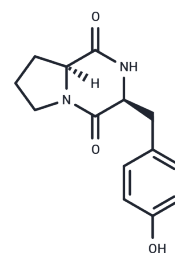
CAS No. : 4549-02-4

Formula: C₁₄H₁₆N₂O₃

Molecular Weight: 260.29

Appearance: no data available

Storage: keep away from moisture
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Maculosin is a secondary metabolite of fungi and bacteria.
Targets(IC50)	Others
In vitro	Maculosin acts as a host-specific phytotoxin, inducing formation of weeping necrotic lesions in leaves of spotted knapweed (<i>C. maculosa</i>) when used at a concentration of 10 µM. Maculosin reduces the growth of the plant pathogenic bacteria <i>X. axonopodis</i> and <i>R. solanacearum</i> (MICs = 31.25 µg/ml) as well as the pathogenic oomycetes <i>P. cactorum</i> , <i>P. capsici</i> , <i>P. cinnamomi</i> , <i>P. infestans</i> , and <i>P. ultimum</i> when used at concentrations ranging from 10 to 100 mg/ml. Maculosin also inhibits the growth of <i>M. luteus</i> , <i>M. smegmatis</i> , <i>S. cerevisiae</i> , <i>C. albicans</i> , <i>C. neoformans</i> , and <i>A. niger</i> when used in combination with pyrrolnitrin or banegasin.

Solubility Information

Solubility	DMSO: 100 mg/mL (384.19 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8419 mL	19.2093 mL	38.4187 mL
5 mM	0.7684 mL	3.8419 mL	7.6837 mL
10 mM	0.3842 mL	1.9209 mL	3.8419 mL
50 mM	0.0768 mL	0.3842 mL	0.7684 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Stierle A C , Cardellina J H , Strobel G A . Maculosin, a host-specific phytotoxin for spotted knapweed from *Alternaria alternata*[[. Proceedings of the National Academy of Sciences, 1988, 85(21):8008-8011.

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