

Product Data Sheet

Product Name: Viridicatol

Cat. No.: GC45147

Chemical Properties

Cas. No. 14484-44-7

SMILES O=C1C(O)=C(C2=CC(O)=CC=C2)C3=CC=CC=C3N1

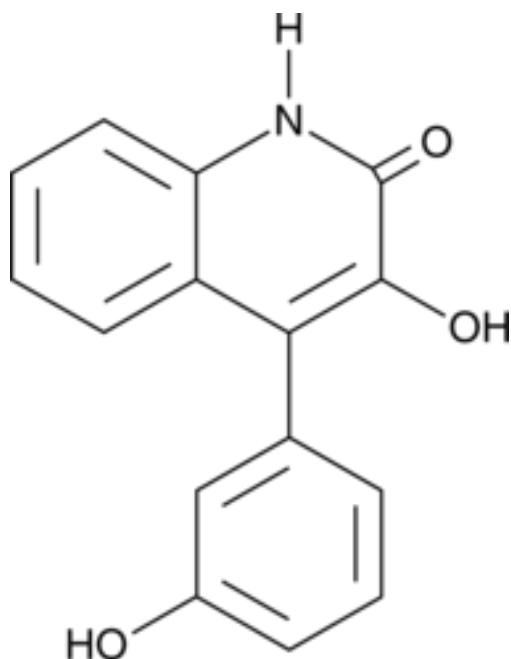
Formula C₁₅H₁₁NO₃ M.Wt 253.3

Solubility DMSO : 125 mg/mL (493.58 mM; Need ultrasonic) 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



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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Background

Viridicatol is a fungal metabolite that has been found in various *Penicillium* species as well as *Phoma*. It suppresses the expression of COX-2 and inducible nitric oxide synthase (iNOS) and inhibits production of nitric oxide and prostaglandin E2 (PGE2) in LPS-stimulated RAW 264.7 and BV2 cells. It also inhibits NF- κ B DNA-binding activity, nuclear translocation of NF- κ B p65 and p50 heterodimers, and blocks degradation of inhibitor of kappa B α (I κ B α) in the cytoplasm of LPS-stimulated RAW 264.7 and BV2 cells. Viridicatol inhibits the growth of *F. graminearum* in a disc assay. It also inhibits protein tyrosine phosphatase 1B (PTB1B) in vitro (IC50 = 64 μ M).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA