

(3S,5S,E)-1,7-Diphenylhept-1-ene-3,5-diol Biochemical

(3S,5S,E)-1,7-Diphenylhept-1-ene-3,5-diol

CATALOG #
AAA229017

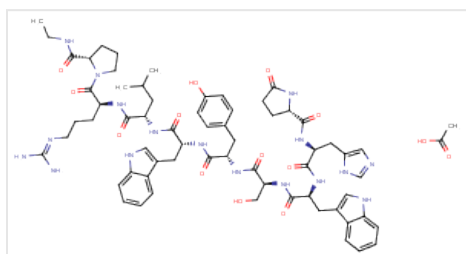
PRODUCT SYNONYMS

(3S; 5S; E)-1; 7-Diphenylhept-1-ene-3; 5-diol; Somagard; Tryptal; H 4065; 5-diol biochemical

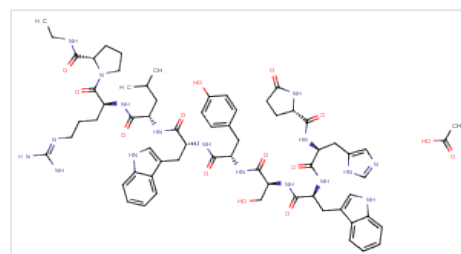
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Formula	C ₁₉ H ₂₂ O ₂
CAS	87095-75-8
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	METHODS AND RESULTS: The resinous exudates from <i>Escallonia illinita</i> by products was characterized by FT-IR, NMR and HRMS. Six compounds were isolated and identified as follows: 1,5-diphenylpent-1-en-3-one (1), 4-(5-hydroxy-3,7-dimethoxy-4-oxo-4H-chromen-2-yl)phenyl acetate (2), pinocembrin (3), kaempferol 3-O-methylether (4), (3S,5S)-(E)-1,7-diphenylhept-1-ene-3,5-diol ((3S,5S,E)-1,7-Diphenylhept-1-ene-3,5-diol,5) and the new diarylheptanoid (3S,5S)-(E)-5-hydroxy-1,7-diphenylhept-1-en-3-yl acetate (6). The anti-oomycete potential of the resinous exudate, as well as the main compounds, was tested in vitro against <i>Saprolegnia parasitica</i> and <i>Saprolegnia australis</i> . CONCLUSIONS: The resinous exudate showed a strong anti-oomycete activity. In addition, the compounds 6, 1 and 3 demonstrated significant inhibition of <i>Saprolegnia</i> strains development. These findings strongly suggest that <i>E. illinita</i> is a potential biomass that could be used as a natural anti-oomycete product.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Deslorelin Acetate, CAS 82318-06-7



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ADDITIONAL INFORMATION

**Related Product Information for
(3S,5S,E)-1,7-Diphenylhept-1-ene-3,5-diol biochemical**

(3S,5S,E)-1,7-Diphenylhept-1-ene-3,5-diol has anti-oomycete potential.

References

1. MacGregor MJ, Asa CS, Skinner DC. Variable duration of reproductive suppression in male coyotes (*Canis latrans*) treated with a high dose of the gonadotrophin-releasing hormone agonist deslorelin. *Reprod Fertil Dev*. 2016 May 10. doi: 10.1071/RD15253. [Epub ahead of print] PubMed PMID: 27161891.
2. Raines JA, Fried JJ. Use of deslorelin acetate implants to control aggression in a multi-male group of Rock Hyrax (*Procavia capensis*). *Zoo Biol*. 2016 May 3. doi: 10.1002/zoo.21290. [Epub ahead of print] PubMed PMID: 27142595.
3. Agarwal SK, Daniels A, Drosman SR, Udoff L, Foster WG, Pike MC, Spicer DV, Daniels JR. Treatment of Endometriosis with the GnRHa Deslorelin and Add-Back Estradiol and Supplementary Testosterone. *Biomed Res Int*. 2015;2015:934164. doi: 10.1155/2015/934164. Epub 2015 Dec 31. PubMed PMID: 26881208; PubMed Central PMCID: PMC4736002.
4. Romagnoli S, Baldan A, Righetti C, Milani C, Mollo A, Stelletta C. Semen quality and interval to sterility in tom cats treated with a 9.4 mg deslorelin implant. *J Feline Med Surg*. 2016 Jan 13. pii: 1098612X15623985. [Epub ahead of print] PubMed PMID: 26763267.

NCBI AND UNIPROT INFORMATION

Molecular Weight

1342.527

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/3s5se-17-diphenylhept-1-ene-35-diol/229017>