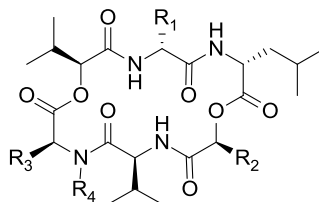


Sporidesmolide complex

Code No.: **BIA-S1602**

Pack sizes: **5 mg, 25 mg**



	R <sub>1</sub>	R <sub>2</sub>	R <sub>3</sub>	R <sub>4</sub>
Sporidesmolide I	CH(CH <sub>3</sub> ) <sub>2</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>3</sub>
Sporidesmolide II	CH(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>3</sub>
Sporidesmolide III	CH(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	H
Sporidesmolide IV	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>3</sub>
Sporidesmolide V	CH(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>3</sub>	CH(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>3</sub>	CH(CH <sub>3</sub> )CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>

Synonyms :

**Specifications**

CAS #	: 11113-90-9
Molecular Formula	: C <sub>34</sub> H <sub>60</sub> N <sub>4</sub> O <sub>8</sub> (for sporidesmolide II)
Molecular Weight	: 652.9
Source	: <i>Pithomyces</i> sp.
Appearance	: Off white to light tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

**Application Notes**

Sporidesmolide is a family of five closely related cyclic depsipeptides produced by *Pithomyces chartarum*, the pathogen responsible for facial eczema in sheep, first reported by Russell and colleagues at CSIR in New Zealand in 1961. Sporidesmolide complex contains three dominant components, I, II and V, with lesser quantities of the more polar III and only traces of sporidesmolide IV. The biological activity of the sporidesmolides has not been reported in the literature.

**References**

1. The production of sporidesmin and sporidesmolides by *Pithomyces chartarum*. Done J. J. Gen. Microbiol. 1961, 26, 207.
2. Sporidesmolide I, a metabolic product of *Sporidesmium bakeri* Syd. Russell D.W. Biochim. Biophys. Acta 1960, 45, 411.
3. Depsipeptides of *Pithomyces chartarum*: the structure of sporidesmolide I. Russell D.W. J. Chem. Soc., 1962, 753.
4. Effects of stereoisomeric isoleucines on sporidesmolide biosynthesis by *Pithomyces chartarum*. Russell D.W. J. Gen. Microbiol. 1967, 47, 335.

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