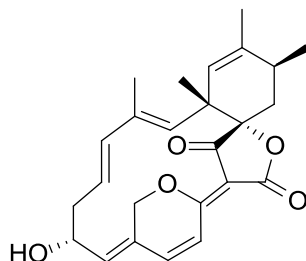


Spirohexenolide A

Code No.: **BIA-S1698**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms :

Specifications

CAS #	:	1193347-22-6
Molecular Formula	:	C₂₅H₂₈O₅
Molecular Weight	:	408.5
Source	:	<i>Streptomyces</i> sp.
Appearance	:	Yellow solid
Purity	:	>95% by HPLC
Long Term Storage	:	-20°C
Solubility	:	Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Spirohexenolide A is a spiro-tetronate isolated from *Streptomyces platensis* by Burkart and co-workers in 2013 as a potent antitumor agent. The original strain of *S. platensis* did not produce spirohexenolide A but the metabolite emerged on subsequent mutagenesis and media optimisation. Spirohexenolide A is a previously unknown tetracyclic metabolite with a 15-membered macrocyclic tetrone acid, most closely related to the 13-membered macrocyclic tetrone acids, tetromycins A and B. Spirohexenolide A was recently reported to modulate the action of human macrophage migration inhibitor factor (hMIF).

References

1. Isolation, structure elucidation, and antitumor activity of spirohexenolides A and B. Kang, M.J. et al., J. Org. Chem. 2009, 74, 9054.
2. Spirohexenolide A targets human macrophage migration inhibitory factor (hMIF). Yu W-L. et al., J. Nat. Prod. 2013, 76, 817.