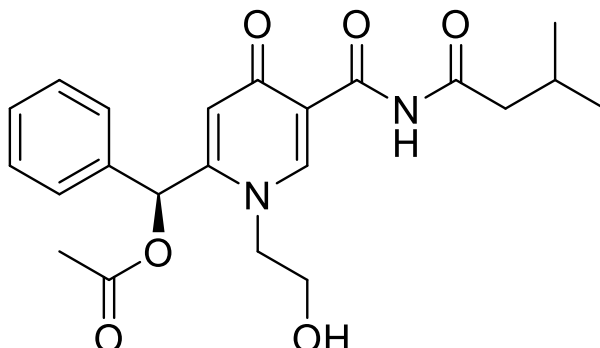


Berkeleyamide C

Code No.: **BIA-B2967**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : -

Specifications

CAS #	: 1019854-23-9
Molecular Formula	: C ₂₂ H ₂₆ N ₂ O ₆
Molecular Weight	: 414.5
Source	: <i>Penicillium</i> sp.
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol and DMSO.

Application Notes

Berkeleyamide C is a 4-pyridone isolated from the extremophilic fungus, *Penicillium rubrum*, collected from the Berkeley Pit Lake, Butte by Stierle and colleagues, University of Montana in 2007. The berkeleyamides were speculated to be formed biosynthetically from the condensation of a phenyl triketide with leucine. Berkeleyamide C differs from other members of the class by the presence of a 4-pyridone core structure with a 2-hydroxyethyl chain. Berkeleyamide C has demonstrated in vitro activity against caspase-1 and matrix metalloproteinase-3, which may be upregulated in many tumours.

References

1. Stierle A.J. et al. (2008). The berkeleyamides, amides from the acid lake fungus *Penicillium rubrum*. J. Nat. Prod., 71, 856.
2. Stierle A. et al. (2014). Bioactive secondary metabolites from acid mine waste extremophiles. Nat. Prod. Commun., 9, 1037.

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