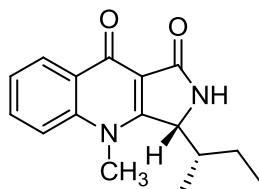


## Quinolactacin A1

Code No.: **BIA-Q1073**

Pack sizes: **1 mg, 5 mg**



Synonyms :

### Specifications

CAS #	:	<b>815576-68-2</b>
Molecular Formula	:	<b>C<sub>16</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub></b>
Molecular Weight	:	<b>270.3</b>
Source	:	<b><i>Penicillium citrinum</i></b>
Appearance	:	<b>White Powder</b>
Purity	:	<b>&gt;95% by HPLC</b>
Long Term Storage	:	<b>-20°C</b>
Solubility	:	<b>Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</b>

### Application Notes

Quinolactacin A1 is the dominant analogue of a family of quinolone metabolites produced by *Penicillium citrinum*. Quinolactacin A1 rapidly epimerises to equilibrate with its diastereomer quinolactacin A2 in protic solvents. The mixture has been shown to inhibit acetylcholinesterase and TNF production.

### References

1. Biosynthesis of quinolactacin A, a TNF production inhibitor. Sasaki T. et al., J Antibiot. 2006, 59, 418.
2. Quinolactacins A1 and A2, new acetylcholinesterase inhibitors from *Penicillium citrinum*. Kim W.G. et al., J Antibiot. 2001, 54, 831.
3. Quinolactacins A, B and C: novel quinolone compounds from *Penicillium* sp. EPF-6. I. Taxonomy, production, isolation and biological properties. Kakinuma N. et al., J Antibiot. 2000, 53,1247.
4. Clark B. et al., Quinolactacins revisited: from lactams to imides and beyond. Org Biomol Chem. 2006, 4, 1512.