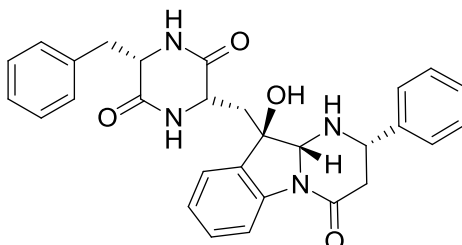


Citreoindole

Code No.: **BIA-C1697**

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



Synonyms :

Specifications

CAS #	: 138655-14-8
Molecular Formula	: C₂₉H₂₈N₄O₄
Molecular Weight	: 496.6
Source	: <i>Penicillium citreonigrum</i>
Appearance	: Off-white to fawn solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Citreoindole is an unusual diketopiperazine metabolite first isolated from a hybrid cell fusion of two strains of *Penicillium citreoviride* B. IFO 6200 and 4692. Matsunaga K. et al., Tet. Lett. 1991, 32, 6883. In 2016, Capon and co-workers revised the structure of citreoindole from the 5-benzyl-4-imidazolidinyl ring to a 6-phenyl-4(1H)-pyrimidinone ring. The same year, its stereochemistry was resolved by Gloer and co-workers by extrapolation from the crystal structure of a close analogue, haenamindole. Citreoindole has weak activity against mammalian tumor cell lines but its pharmacology has not been further investigated.

References

1. Isolation and structure of citreoindole, a new metabolite of hybrid strain KO 0052 derived from *Penicillium citreoviride* B. IFO 6200 and 4692. Matsunaga K. et al., Tet. Lett. 1991, 32, 6883.
2. Structure revision of the *Penicillium* alkaloids haenamindole and citreoindole. Song F. et al., Tet. Lett. 2016, 57, 3851.
3. Haenamindole and fumiquinazoline analogs from a fungicolous isolate of *Penicillium lanosum*. Hwang I.H. et al., J. Antibiot. 2016, 69, 631.