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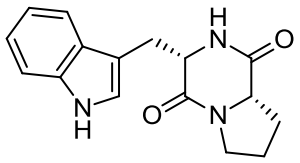
PRODUCT DATA SHEET

Brevianamide F

Code No.: **BIA-B1715**

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



Synonyms : Cyclo(L-Pro-L-Trp); (3S,8aS)-Hexahydro-3-(1H-indol-3-ylmethyl)pyrrolo[1,2-a]pyrazine-1,4-dione; Brevianamide F; Cyclo(L-Pro-L-Trp); Cyclo-L-tryptophyl-L-proline; L-Prolyl-L-tryptophan anhydride; Prolyltryptophanyldiketopiperazine; cyclo-L-Prolyl-L-tryptop

Specifications

CAS #	:	**38136-70-8**
Molecular Formula	:	**$C_{16}H_{17}N_3O_2$**
Molecular Weight	:	**283.3**
Source	:	***Penicillium* sp.**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Brevianamide F (cyclo(L-Pro-L-Trp)) is a diketopiperazine metabolite isolated from a fermentation of Penicillium brevicompactum by Birch and co-workers in 1970. The structure of brevianamide F was elucidated by the same group two years later. Brevianamide F was subsequently reported as a metabolite common to a number of bacteria and fungi. It is therefore a useful standard for chemical and bioassay dereplication. Brevianamide F exhibits broad spectrum antibacterial activity and enhances the maturation of mammalian cells.

References

1. Studies in relation to biosynthesis - XLII: The structural elucidation and some aspects of the biosynthesis of the brevianamides-A and -E. Birch A.J. and Wright J.J., Tetrahedron 1970, 26, 2329.
2. Studies in relation to biosynthesis - XLIV: Structural elucidations of brevianamides-B, -C, -D and –F. Birch A.J. and Russell R.A., Tetrahedron 1972, 28, 2999.
3. Antimicrobial activity of selected cyclic dipeptides. Graz M. et al., Pharmazie 2001, 56, 900.

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