
Product Data Sheet

Product Name: XR586
Cat. No.: GC60387

Chemical Properties

Cas. No. 185981-24-2

Formula $C_{91}H_{138}N_{20}O_{22}$ M.Wt 1864.19

Solubility Storage

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

XR586 is a peptaibol-like antibiotic isolated from fermentations of *Acremonium persicinum*. XR586 contains several alpha-aminoisobutyric acid (Aib) residues, lacks a terminal phenylalaninol and terminates in the sequence Phe-Gly[1].

The mechanism of the anti-bacterial activity and toxicity: XR586 shows many structural and conformational features in common with peptaibols, particularly the zervamicins. Peptaibol antibiotics are peptides, typically of 15-20 residues, containing a large proportion of alpha-aminoisobutyric acid (Aib) residues. These peptides adopt a helical conformation in solution and display anti-bacterial and toxic properties due to their ability to form pores in membranes[1].

[1]. G J Sharman, et al. Structural elucidation of XR586, a peptaibol-like antibiotic from *Acremonium persicinum*. *Biochem J.* 1996 Dec 15; 320(Pt 3): 723-728.

Caution: Product has not been fully validated for medical applications. For research use only.

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