

Product Data Sheet

Product Name: Streptonigrin (Bruneomycin)

Cat. No.: GC32303

Chemical Properties

Cas. No. 3930-19-6

SMILES O=C(C1=NC(C2=NC3=C(C(C(OC)=C(N)C3=O)=O)C=C2)=C(N)C(C4=CC=C(OC)C(OC)=C4O)=C1C)O

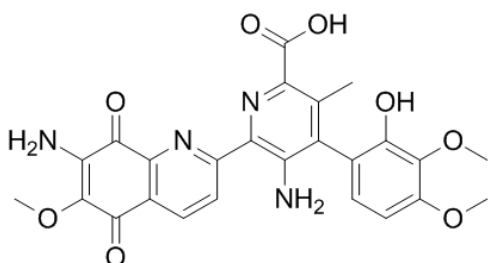
Formula $C_{25}H_{22}N_4O_8$ M.Wt 506.46

Solubility Chloroform:Methanol (1:1): 2 mg/ml Storage Store at -20°C

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



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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

Streptonigrin (Bruneomycin), a natural product produced by *Streptomyces flocculus*, possesses both anti-tumor and anti-bacterial activity. Streptonigrin acts as a pan-PAD inhibitor with IC₅₀s of 48.3±34.2 μM, 26.1±0.3 μM, 0.43±0.03 μM, and 2.5±0.4 μM for PAD1, PAD2, PAD3, and PAD4, respectively[1].

[1]. Dreyton CJ, et al. Insights into the mechanism of Streptonigrin-induced protein arginine deiminase inactivation. *Bioorg Med Chem*. 2014 Feb 15;22(4):1362-9.

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