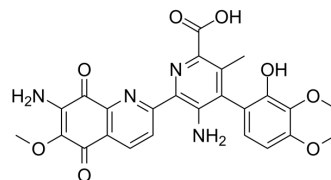


Streptonigrin

Cat. No.:	HY-124586		
CAS No.:	3930-19-6		
Molecular Formula:	C ₂₅ H ₂₂ N ₄ O ₈		
Molecular Weight:	506.46		
Target:	Protein Arginine Deiminase; Antibiotic		
Pathway:	Epigenetics; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Streptonigrin (Bruneomycin), a natural product produced by <i>Streptomyces flocculus</i> , possesses both anti-tumor and anti-bacterial activity. Streptonigrin acts as a pan-PAD inhibitor with IC ₅₀ s 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] .
IC ₅₀ & Target	Anti-bacterial ^[1] IC ₅₀ : 48.3±34.2 μM (PAD1), 26.1±0.3 μM, (PAD2), 0.43±0.03 μM (PAD3), 2.5±0.4 μM (PAD4) ^[1]

CUSTOMER VALIDATION

- Sci Signal. 2023 Mar 14;16(776):eabq33362.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA