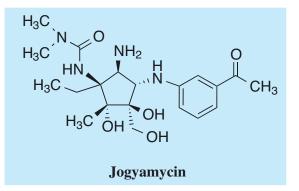
# Jogyamycin

# **1.** Discovery, producing organism and structures <sup>1,2)</sup>

Jogyamycin was found in a culture broth of an actinomycete strain, *Streptomyces* sp. a-WM-JG-16.2 isolated from a soil sample collected in Jogjakarta Indonesia. It was found together with the known analogs, pactamycin, 7-deoxypactamycin and pactamycate and was shown to be an antiprotozaol aminocyclopentitol. Jogyamycin exhibited highly potent *in vitro* antimalarial activity against chloroquine-resistant *Plasmodium falciparum* K1 strain parasite. It also possessed antitrypanosomal activity.



#### 2. Physical data

Yellow powder.  $C_{20}H_{32}O_5N_4$ ; mol wt 408.49. Sol. in MeOH.

## **3. Biological activity**<sup>1)</sup>

1) In vitro antimalarial activity

Jogyamyicn showed potent antimalarial activity against *P. falciparum* K1 parasites, with an  $IC_{50}$  value of 1.5 nM.

#### 2) In vitro antitrypanosomal activity

Jogyamyicn also diplayed potent antitrypanosomal activity against *Trypanosoma brucei brucei* GuTat3.1 strain parasites, with an  $IC_{50}$  value of 12.3 nM.

## 4. References

1. [1117] M. Iwatsuki et al., J. Antibiot. 65, 169-172 (2012)