

# Acyclovir

**Catalog No: tcsc1353**



## Available Sizes

**Size:** 50mg

**Size:** 100mg

**Size:** 500mg



## Specifications

**CAS No:**

59277-89-3

**Formula:**

$C_8H_{11}N_5O_3$

**Pathway:**

Anti-infection

**Target:**

HSV

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 50$  mg/mL (222.02 mM)

**Alternative Names:**

Aciclovir;Acycloguanosine

**Observed Molecular Weight:**

225.2

## Product Description

Acyclovir, a molecule tailored to inactivate the thymidine kinase of the herpesvirus, is a guanosine analogue antiviral drug. It is a drug for HSV infection by GlaxoSmithKline.

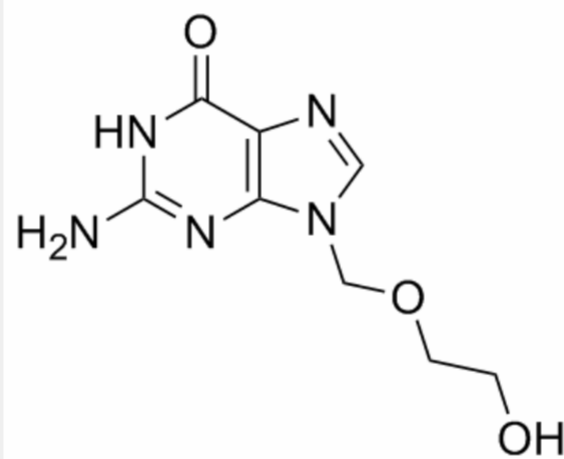
IC50 Value: 0.53-0.75  $\mu$ M [3]

Target: HSV

in vitro: Acyclovir sensitivity was determined in a plaque-reduction assay in Vero cells. IC50 Values were consistently 2-3 fold lower in B2 compared with the H strain of Vero cells. HSV Type 2 strains were 2-10-fold less sensitive than Type 1 strains [2].

in vivo: two patients experienced a recurrence during treatment with oral acyclovir (200 mg 4 times daily) for up to 12 weeks, compared with nine during placebo treatment ( $P = 0.016$ ). There was no difference between acyclovir and placebo in the time to the next recurrence following completion of treatment [3]. low-dose oral acyclovir may be effective in the prevention of HSV infection during OKT3 treatment of seropositive patients. Continuation of acyclovir prophylaxis for two to four weeks following the conclusion of OKT3 therapy may prevent occurrence of delayed infections [4].

Clinical trial: Acyclovir to Treat Patients Co-infected With HIV and Herpes Viruses in Uganda. Phage2



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