

Maribavir

Catalog No: tcsc2846



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

176161-24-3

Formula:

$C_{15}H_{19}Cl_2N_3O_4$

Pathway:

Anti-infection

Target:

CMV

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 51 mg/mL (135.55 mM)

Alternative Names:

1263W94;BW1263W94;GW257406X

Observed Molecular Weight:

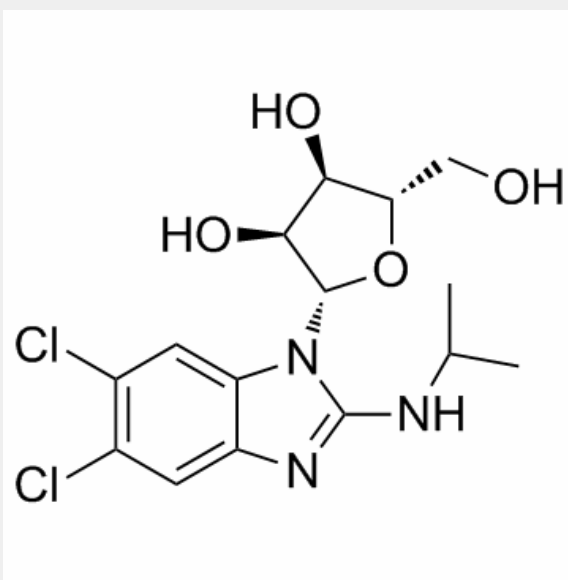
376.24

Product Description

Maribavir is a potent inhibitor of histone phosphorylation catalyzed by wild-type pUL97 in vitro, with an **IC₅₀** of 3 nM. Maribavir has potent antiviral activity against **HCMV** and Epstein-Barr virus (**EBV**).

IC50 & Target: HCMV^[1]

In Vitro: Maribavir is a potent inhibitor of the autophosphorylation of the wild type and all the major Ganciclovir (GCV) resistant UL97 mutants analysed with a mean IC₅₀ of 35 nM. The M460I mutation results in hypersensitivity to Maribavir with an IC₅₀ of 4.8 nM. A Maribavir resistant mutant of UL97 (L397R) is functionally compromised as both a Ganciclovir kinase and a protein kinase (~ 10% of wild type levels). Enzyme kinetic experiments demonstrate that Maribavir is a competitive inhibitor of ATP with a K_i of 10 nM^[1]. Maribavir (1263W94) inhibits viral replication in a dose-dependent manner, with IC₅₀ of 0.12±0.01 μM as measured by a multicycle DNA hybridization assay. The pUL97 protein kinase is strongly inhibited by Maribavir, with 50% inhibition occurring at 3 nM^[2].



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