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# Merimepodib

## Catalog No: tcsc2105

### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

### Specifications

**CAS No:**
198821-22-6

**Formula:**
$C_{23}H_{24}N_4O_6$

**Pathway:**
Anti-infection;Anti-infection

**Target:**
HBV;HCV

**Purity / Grade:**
>98%

**Solubility:**
DMSO : ≥ 31 mg/mL (68.51 mM)

**Alternative Names:**
VI-21497;VX-497;MMP

**Observed Molecular Weight:**
452.46

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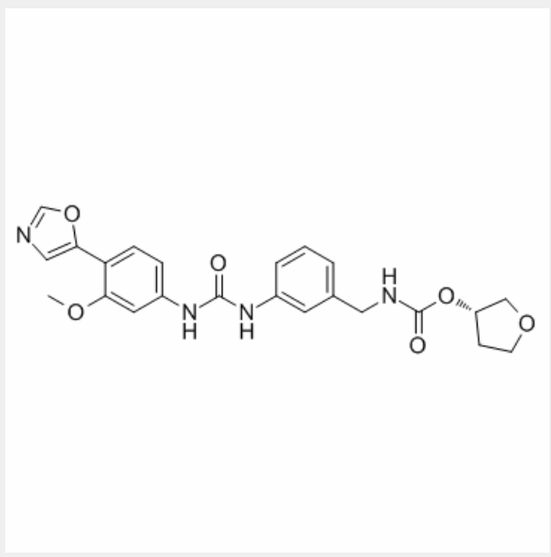
## Product Description

Merimepodib is a novel noncompetitive inhibitor of **IMPDH (Inosine monophosphate dehydrogenase)**.

***In Vitro:*** VX-497 has antiproliferative effect on lymphoid and keratinocyte cells. The antiproliferative effect of VX-497 in cells is reversed within 48 h of its removal[1]. VX-497 has intermediate antiviral activity against a second group of viruses, which includes HSV-1, parainfluenza-3 virus, BVDV, VEEV, and dengue virus, with $IC_{50}$s ranging from 6 to 19 μM. VX-497 is 100-fold more potent, with an $IC_{50}$ of 380 nM and a corresponding $CC_{50}$ of 5.2 μM, for a therapeutic index of 14. The antiviral activity of VX-497 in HepG2.2.2.15 cells is reversed threefold by the addition of guanosine[2].

***In Vivo:*** Oral administration of VX-497 inhibits the primary IgM antibody response in a dose-dependent manner, with an $ED_{50}$ value of appr 30-35 mg/kg in mice. Single daily dosing of VX-497 is observed to be as effective as twice-daily dosing in this model of immune activation[1]. GVHD developed in the vehicle-treated allografted F1 mice and treatment with VX-497 improved all manifestations of the disease significantly. The 2.9-fold increase in spleen weight in allografted animals is reduced to a 1.6-fold increase in the VX-497-treated mice. Serum IFN-gamma levels are increased 54-fold in the vehicle group while there is a 7.4-fold increase in VX-497-treated animals[3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!

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