

Product Name	: Merimepodib
Synonyms	: VI-21497; VX-497
Cat No.	: M13108
CAS Number	: 198821-22-6
Molecular Formula	: C ₂₃ H ₂₄ N ₄ O ₆
Formula Weight	: 452.47
Chemical Name	: (S)-tetrahydrofuran-3-yl (3-(3-(3-methoxy-4-(oxazol-5-yl)phenyl)ureido)benzyl)carbamate
Description	Merimepodib (VX-497, VI-21497, MMPD) is a potent, selective, reversible, uncompetitive IMPDH inhibitor with broad-spectrum antiviral activity; inhibits HBV, HCMV, RSV and HSV-1 with IC₅₀ of 0.4, 0.8, 1.1 and 6.3 uM, also inhibits BVDV, VEEV, Coxsackie B3 and Dengue virus with IC₅₀ at low uM level; Merimepodib is 17- to 186-fold more potent than ribavirin against HBV, HCMV, RSV, HSV-1, parainfluenza-3 virus, EMCV, and VEEV infections in cultured cells, also demonstrates additivity when coapplied with IFN-alpha. HCV Infection Discontinued
Pathway	: Metabolic Enzyme/Protease
Target	: IMPDH
Receptor	: Antiviral; IMPDH
Solubility	: DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
SMILES	: <chem>O=C(O[C@@H]1COCC1)NCC2=CC=CC(NC(NC3=CC=C(C4=CN=CO4)C(OC)=C3)=O)=C2</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Markland W, et al. Antimicrob Agents Chemother. 2000 Apr;44(4):859-66. | 2. Tong X, et al. Antiviral Res. 2018 Jan;149:34-40. doi: 10.1016/j.antiviral.2017.11.004. | 3. Beevers RE, et al. Bioorg Med Chem Lett. 2006 May 1;16(9):2535-8. | 4. Decker CJ, et al. Drugs Exp Clin Res. 2001;27(3):89-95.