

Product Name	: GLS4
Synonyms	: GLS 4; Morphothiadin
Cat No.	: M10356
CAS Number	: 1092970-12-1
Molecular Formula	: C ₂₁ H ₂₂ BrFN ₄ O ₃ S
Formula Weight	: 509.39
Chemical Name	: ethyl 4-(2-bromo-4-fluorophenyl)-6-(morpholinomethyl)-2-(thiazol-2-yl)-1,4-dihydropyrimidine-5-carboxylate
Description	GLS4 (Morphothiadin) is a potent inhibitor of HBV capsid assembly, inhibits HBV replication (EC₅₀=62.24 nM) and reduces HBV-DNA levels in HepG.2.2.15 cells (IC₅₀=14 nM), shows efficacy against ADV-resistant HBV mutations; strongly inhibits core gene expression (at 100 to 200 nM), suppresses virus accumulation in the supernatant of HepAD38 cells; inhibits HBV replicative forms in the live, shows strong and sustained suppression of virus DNA in treated mice. HBV Infection Phase 3 Clinical
Pathway	: Microbiology/Virology
Target	: HBV
Receptor	: HBV
Solubility	: DMSO : 100 mg/mL 196.31 mM; H ₂ O : < 0.1 mg/mL
SMILES	: <chem>CCOC(=O)C1=C(NC(=NC1C2=C(C=C(C=C2)F)Br)C3=NC=CS3)CN4CCOCC4</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Wang XY, et al. Antivir Ther. 2012;17(5):793-803. | 2. Wu G, et al. Antimicrob Agents Chemother. 2013 Nov;57(11):5344-54. | 3. Ren Q, et al. Bioorg Med Chem. 2017 Feb 1;25(3):1042-1056. | 4. Tu T, et al. J Virol. 2018 Feb 7. pii: JVI.02007-17.