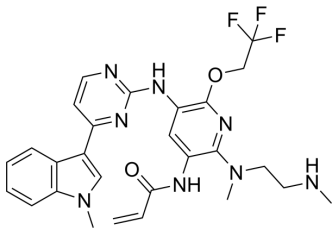
AST5902

Cat. No.:	HY-138627
CAS No.:	2412155-74-7
Molecular Formula:	$C_{27}H_{29}F_3N_8O_2$
Molecular Weight:	554.57
Target:	Drug Metabolite; EGFR
Pathway:	Metabolic Enzyme/Protease; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.75 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	AST5902 is the active metabolite of Firmonertinib (HY-112870) (EGFR inhibitor). AST5902 has antineoplastic activity[1][2].

REFERENCES

[1]. Zhu YT, et al. Effects of rifampicin on the pharmacokinetics of alflutinib, a selective third-generation EGFR kinase inhibitor, and its metabolite AST5902 in healthy volunteers. Invest New Drugs. 2021 Aug;39(4):1011-1018.

[2]. Liu XY, Guo ZT, Chen ZD, Zhang YF, Zhou JL, Jiang Y, Zhao QY, Diao XX, Zhong DF. Alflutinib (AST2818), primarily metabolized by CYP3A4, is a potent CYP3A4 inducer. Acta Pharmacol Sin. 2020 Oct;41(10):1366-1376.

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