ZNL-0056

Cat. No.: HY-160564

CAS No.: 2767987-38-0

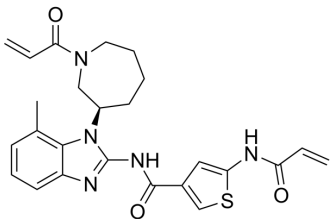
Molecular Formula: $C_{25}H_{27}N_5O_3S$

Molecular Weight: 477.58

Target: EGFR

Pathway: JAK/STAT Signaling; Protein Tyrosine Kinase/RTK

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

ZNL-0056 is an orally active ATP-competitive inhibitor that targets both the Cys797 and Cys775 in the ATP binding site of EGFR. ZNL-0056 selectively inhibits EGFR and its downstream signaling in H3255 cells. ZNL-0056 can be used for the research of cancer[1].

In Vivo

Pharmacokinetic Analysis in Male C57BL/6 Mice Model[1]

Route	Dose (mg/kg)	$T_{1/2}$ (h)	T_{max} (h)	C_{max} (ng/mL)	AUC_{last} (ng·min/mL)	AUC_{INF_obs} (ng·min/mL)	$AUC_{\%Extrap}$ (ng·min/mL)	Cl_{obs} (mL·min/kg)	MRT $_{INF\_obs}$ (h)	F (%)
i.v.	1	0.33	0.08	965	21820	22013	0.86	53.6	0.30	/
i.p.	3	0.49	0.19	611	27398	27482	0.39	142.9	/	41.9
p.o.	10	3.8	0.14	658	53219	63341	15.7	158.8	/	24.4

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li Z, et al. Molecular Bidents with Two Electrophilic Warheads as a New Pharmacological Modality. ACS Central Science. 2024.

Caution: Product has not been fully validated for medical applications. For research use only.

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