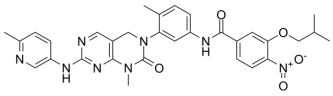
Lck-IN-2

Cat. No.:	HY-163278
CAS No.:	2615173-24-3
Molecular Formula:	$C_{31}H_{32}N_8O_5$
Molecular Weight:	596.64
Target:	Src; Apoptosis
Pathway:	Protein Tyrosine Kinase/RTK; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Lck-IN-2 (compound 12a) is an inhibitor of Lymphocyte-specific protein tyrosine kinase (Lck) with IC_{50} of 10.6 nM. Lck-IN-2 reveals efficacy in colon cancer cells with GI_{50}s of 0.24-1.26 μM. Lck-IN-2 exhibits an apoptotic effect in Colo201 cells[1].
IC_{50} & Target	Lck 10.6 nM (IC_{50})
In Vitro	Lck-IN-2 inhibits Lck phosphorylation and induces apoptosis in human colon cancer cells Colo201 in dose-dependent manner[1]. Lck-IN-2 reveals anti-proliferative potencies against various cancer cells, with GI_{50} of 0.01-8 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	Colo201
Concentration:	0-10 μM
Incubation Time:	
Result:	Reduced the Lck phosphorylation and increased levels of cleaved PARP in dose-dependent manner

REFERENCES

[1]. Hyun Ji S, et al., Identification of 3,4-dihydropyrimido[4,5-d]pyrimidin-2(1H)-one scaffolds as potent Lck inhibitors as anti-cancer agents. Bioorg Med Chem Lett. 2024 Feb 3:129645.

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