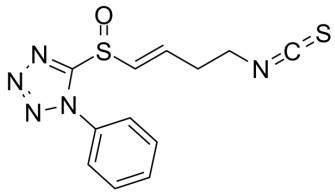
LFS-1107

Cat. No.:	HY-157136
CAS No.:	1799330-91-8
Molecular Formula:	$C_{12}H_{11}N_5OS_2$
Molecular Weight:	305.38
Target:	CRM1; COX; c-Myc; Survivin
Pathway:	Membrane Transporter/Ion Channel; Immunology/Inflammation; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LFS-1107 is a reversible CRM1 inhibitor (K_d: 12.5 pM). LFS-1107 can selectively eliminate extranodal natural killer/T cell lymphoma (ENKTL) cells and can be used for cancer research[1].
IC_{50} & Target	COX-2

In Vitro

LFS-1107 (4-9 μM, 72 h) can selectively eliminate ENKTL cells while sparing normal human PBMC with good safety profile in PBMC cell lines[1].

LFS-1107 (0.15-500 μM, 24 h) barely exhibits any effects in human platelets[1].

LFS-1107 (50-200 nM, 3 h) can lead to nuclear accumulation IκBα in 293T cells[1].

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

Cell Viability Assay[1]

Cell Line:	SNK6, HANK-1
Concentration:	0-800 nM
Incubation Time:	72 h
Result:	Achieved IC_{50} value of 26 nM in SNK6 cell line and 36 nM in HANK-1 cell line.

Western Blot Analysis[1]

Cell Line:	SNK6
Concentration:	62.5 nM, 125 nM, 250 nM, 500 nM, 1000 nM
Incubation Time:	3 h
Result:	Suppressed the expression of CRM1 in a dose-dependent manner. Downregulated the expression of proinflammatory and proliferative proteins p65, COX-2, c-Myc, and Survivin in a dose dependent manner.

Immunofluorescence[1]

Cell Line:	293T cells

Concentration:	50 nM, 100 nM, 200 nM
Incubation Time:	3 h
Result:	Could lead to nuclear accumulation of IκBα in a dose dependent manner.

In Vivo

LFS-1107 (10 mg/kg, Intraperitoneal injection,once a week) can ameliorate the symptoms of ENKTL in SNK6 cell xenograft mouse model[1].

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Animal Model:	SNK6 cell xenograft mouse model[1]
Dosage:	10 mg/kg
Administration:	Intraperitoneal injection (i.p.), once a week
Result:	Extended mouse survival and Eliminated tumor cells.

REFERENCES

[1]. He Liu, et al. Discovery and biological evaluation of a potent small molecule CRM1 inhibitor for its selective ablation of extranodal NK/T cell lymphoma eLife 12:e80625.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA