# MSC-4106

Cat. No.:	HY-147208	
CAS No.:	2738542-58-8	
Molecular Formula:	C <sub>18</sub> H <sub>12</sub> F <sub>3</sub> N <sub>3</sub> O <sub>2</sub>	
Molecular Weight:	359.3	
Target:	YAP	
Pathway:	Stem Cell/Wnt	Ŕ
Storage:	-20°C, sealed storage, away from moisture	но
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	Ő

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**Product** Data Sheet

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# SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7832 mL	13.9159 mL	27.8319 mL
	5 mM	0.5566 mL	2.7832 mL	5.5664 mL
	10 mM	0.2783 mL	1.3916 mL	2.7832 mL

DIOLOGICAL ACTIV		
Description	MSC-4106 is an orally active and shows inhibitory effect of	and potent inhibitor of YAP/TAZ-TEAD. MSC-4106 inhibits TEAD1 or TEAD3 auto-palmitoylation on NCI-H226 tumor xenograft model <sup>[1]</sup> .
IC <sub>50</sub> & Target	Target: YAP <sup>[1]</sup>	
In Vitro	MSC-4106 (10 $\mu$ M, 24 h) inhib respectively <sup>[1]</sup> . MSC-4106 (10 $\mu$ M, 6 h) crysta Overexpressing HEK293 Cell MSC-4106 (10 $\mu$ M, 4 d) target MCE has not independently Cell Viability Assay <sup>[1]</sup>	bited SK-HEP-1 reporter and NCI-266 cell viability with IC <sub>50</sub> values of 4 nM and 14 nM, allizes in the P-site of TEAD1, and against TEAD1 or TEAD3 palmitoylation in TEAD- ls by 97.3% and 75.9%, respectively <sup>[1]</sup> . ts TEAD indicated by a reduction in viability of NCI-H226 cells <sup>[1]</sup> . confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	NCI-H226 (YAP dependent); SW620 YAP/TAZ KO (Yap-independent) cells
	Concentration:	0, 3, 6, 9, 12, 15, 18, 21, 24, 26, 30 $\mu M$

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Incubation Time:	9	6 hour	ſS	
Result:	S	howed	d inhibi	tory effect to NCI-H226 and general cytotoxic to SW620 (IC <sub>50</sub> >30 $\mu$ M
Immunofluorescence <sup>[1]</sup>				
Cell Line:	S	K-HEP	P-1	
Concentration:	0	, 3, 6, 9	9, 12, 15	5, 18, 21, 24, 26, 30 μM
Incubation Time:	2	4 hour	rs	
Result:	h	nhibite	ed YAP-	TEAD interation.
Pharmacokinetics (PK)	profile in	differe	ent spec	cies <sup>[1]</sup>
Pharmacokinetics (PK) Parameter	Mouse	Rat	Dog	cies <sup>[1]</sup>
Pharmacokinetics (PK) Parameter Cl (l/h/kg) PO $t_{1/2}$ (h)	Mouse 0.2 45	Rat 0.7 40	Dog 0.05 3.6	cies <sup>[1]</sup>
Pharmacokinetics (PK) Parameter Cl (l/h/kg) PO t <sub>1/2</sub> (h) PO AUC (µg•h/mL)	0.2 45 45	0.7 40	Dog 0.05 3.6 33	cies <sup>[1]</sup>
Pnarmacokinetics (PK) Parameter Cl (l/h/kg) PO t <sub>1/2</sub> (h) PO AUC (μg•h/mL) V <sub>ss</sub> (L/kg)	0.2 45 45 2	Rat 0.7 40 10 5	ent spec Dog 0.05 3.6 33 0.3	cies <sup>[1]</sup>
Pharmacokinetics (PK) Parameter Cl (l/h/kg) PO $t_{1/2}$ (h) PO AUC (µg•h/mL) $V_{ss}$ (L/kg) F (%)	0.2 0.2 45 45 2 >90	Rat 0.7 40 10 5 80	ent spec Dog 0.05 3.6 33 0.3 18	cies <sup>[1]</sup>
Pharmacokinetics (PK) Parameter Cl (l/h/kg) PO t <sub>1/2</sub> (h) PO AUC (μg•h/mL) V <sub>ss</sub> (L/kg) F (%) Note: PO studies were p MCE has not independe	profile in Mouse 0.2 45 45 2 >90 eerformed	Rat 0.7 40 10 5 80 d at 10 irmed	ent spec Dog 0.05 3.6 33 0.3 18 mg/kg; the acc	cies <sup>[1]</sup> ; MSC-4106 was formulated in 20% Kleptose in 50 mM PBS at pH 7.4 curacy of these methods. They are for reference only.
Pharmacokinetics (PK) Parameter Cl (l/h/kg) PO t <sub>1/2</sub> (h) PO AUC (µg•h/mL) V <sub>ss</sub> (L/kg) F (%) Note: PO studies were p MCE has not independe Animal Model:	profile in Mouse 0.2 45 45 2 >90 performed intly conf	Rat 0.7 40 10 5 80 d at 10 irmed	ent spec Dog 0.05 3.6 33 0.3 18 mg/kg the acc 26 xeno	cies <sup>[1]</sup> ;; MSC-4106 was formulated in 20% Kleptose in 50 mM PBS at pH 7.4 curacy of these methods. They are for reference only.

Result:Resulted tumor growth controlled with 5 mg/kg while regressed with 100 mg/kg dosing<br/>after 32 treatment days.

## REFERENCES

In Vivo

[1]. Timo Heinrich, et al. Optimization of TEAD P-site binding fragment hit into in vivo active lead MSC-4106. J. Med. Chem. 2022, 65, 13, 9206–9229.

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

 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