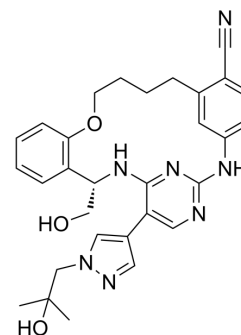


HPK1-IN-31

Cat. No.:	HY-152257
Molecular Formula:	C ₃₀ H ₃₃ N ₇ O ₃
Molecular Weight:	539.63
Target:	MAP4K
Pathway:	MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HPK1-IN-31 (compound 5i) is an orally active hematopoietic progenitor kinase 1 (HPK1) inhibitor with an IC ₅₀ value of 0.8 nM. HPK1-IN-31 has anti-tumour activity and has great potential for immunoresearch ^[1] .																																																								
In Vivo	<p>HPK1-IN-31(compound 5i) (p.o., 30 or 100 mpk twice daily, 14 days) inhibits tumour growth in the CT26 tumour-bearing female BALB/c mouse model and the MC38 tumour-bearing female C57BL/6 mouse model, and is followed by a significant effect when combined with anti-PD-1 monotherapy^[1].</p> <p>The pharmacokinetic parameters of HPK1-IN-31(compound 5i)in Mice and Beagles</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">mice</th> <th colspan="2">beagles</th> </tr> <tr> <th>5i</th> <th>1 mg/kg (i.v.)</th> <th>20 mg/kg (i.g.)</th> <th>1 mg/kg (i.v.)</th> <th>5 mg/kg (i.g.)</th> </tr> </thead> <tbody> <tr> <td>T_{1/2} (h)</td> <td></td> <td>1.3</td> <td>3.7</td> <td>8.1</td> <td>6.2</td> </tr> <tr> <td>T_{max} (h)</td> <td></td> <td>-</td> <td>0.8</td> <td>-</td> <td>1.0</td> </tr> <tr> <td>C_{max} (ng/mL)</td> <td></td> <td>1118</td> <td>2048</td> <td>1811.2</td> <td>539.3</td> </tr> <tr> <td>AUC_(0-inf)(ng*h/mL)</td> <td></td> <td>860</td> <td>8528</td> <td>3132.2</td> <td>4094.9</td> </tr> <tr> <td>MRT (h)</td> <td></td> <td>1.0</td> <td>3.9</td> <td>7.3</td> <td>8.1</td> </tr> <tr> <td>CL (mL/min/kg)</td> <td></td> <td>19.7</td> <td>-</td> <td>5.9</td> <td>-</td> </tr> <tr> <td>F (%)</td> <td></td> <td>-</td> <td>49</td> <td>-</td> <td>27</td> </tr> </tbody> </table> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>						mice		beagles		5i	1 mg/kg (i.v.)	20 mg/kg (i.g.)	1 mg/kg (i.v.)	5 mg/kg (i.g.)	T _{1/2} (h)		1.3	3.7	8.1	6.2	T _{max} (h)		-	0.8	-	1.0	C _{max} (ng/mL)		1118	2048	1811.2	539.3	AUC _(0-inf) (ng*h/mL)		860	8528	3132.2	4094.9	MRT (h)		1.0	3.9	7.3	8.1	CL (mL/min/kg)		19.7	-	5.9	-	F (%)		-	49	-	27
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REFERENCES

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