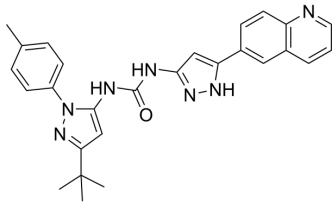
Pyk2-IN-2

Cat. No.:	HY-401485
CAS No.:	1271418-15-5
Molecular Formula:	$C_{27}H_{27}N_7O$
Molecular Weight:	465.55
Target:	Pyk2; FAK
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Pyk2-IN-2 (compound 13j) is an inhibitor of Pyk2 with an IC_{50} of FAK kinase of 0.608 μM[1].
IC_{50} & Target	IC50: 0.608 μM (FAK)[1]
In Vitro	Pyk2-IN-2 (compound 13j) has an IC_{50} of 55 nM against PYK2 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	The HLM blood clearance of Pyk2-IN-2 (compound 13j) is 31 mL/min/kg[1]. Pharmacokinetic Analysis in male Wistar-Han rats[1]

Route	Dose (mg/kg)	$t_{1/2}$ (h)	Cl_p (mL/min/kg)	Vd_{ss} (L/kg)	C_{max} (nM)	Calc C_{max} free (nM)	%F	PPB (fu)
i.v.	1	2.0	2.0	0.15	/	/	/	0.003
p.o.	30	/	/	/	61324	184	47	/

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REFERENCES

[1]. Bhattacharya SK, et al. Identification of novel series of pyrazole and indole-urea based DFG-out PYK2 inhibitors. Bioorg Med Chem Lett. 2012 Dec 15;22(24):7523-9.

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