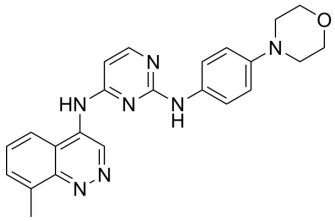
ALK5-IN-33

Cat. No.:	HY-151283
CAS No.:	2785430-89-7
Molecular Formula:	$C_{23}H_{23}N_7O$
Molecular Weight:	413.48
Target:	TGF-β Receptor
Pathway:	TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ALK5-IN-33 (Compound EX-10) is a selective, orally active ALK-5 inhibitor with an IC_{50} ≤10 nM[1].	
IC_{50} & Target	ALK5 ≤10 nM (IC_{50})	ALK2
In Vitro	ALK-IN-33 (Compound EX-10) shows a high efficiency by inducing a full inhibition (max PIN greater than 75) of TGF-β1 mediated alpha-SMA expression, in at least two donors[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	ALK-IN-33 (Compound EX-10) (10-100 mg/kg; i.g.; once) reduces the phospho SMAD2 levels in a dose dependent fashion in A549 xenograft model in mice[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

Animal Model:	Female athymic nude mice, A549 xenograft model[1]
Dosage:	10, 50, 75 and 100 mg/kg
Administration:	Oral gavage, once
Result:	Reduced the phospho SMAD2 levels (p-SMAD2) in a dose dependent fashion.

REFERENCES

[1]. Bettina FRANZ, et al. Alk-5 inhibitors and uses thereof. Patent WO2022126133A1.

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