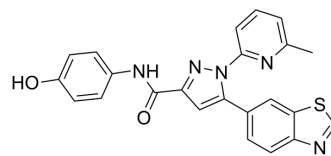


TGFBR1-IN-1

Cat. No.:	HY-129171
CAS No.:	2170830-26-7
Molecular Formula:	C ₂₃ H ₁₇ N ₅ O ₂ S
Molecular Weight:	427.48
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	TGFBR1-IN-1 is an ALK5 inhibitor extracted from patent WO2018004290A1, Compound 33, has an IC ₅₀ of 10-100 nM ^[1] .
IC ₅₀ & Target	ALK5 10-100 nM (IC ₅₀)
In Vitro	Transforming Growth Factor-β (TGF-β) signaling regulates various cellular responses such as cell proliferation, differentiation, cell migration and cell death. TGF-β has at least three isoforms TGF-β1, TGF-β2 and TGF-β3. TGF-β1 is two well-conserved single membrane serine/threonine kinase type I (ALK5). ALK5 inhibitors can be used for treating fibrotic disease, tumor, inflammatory disease, and autoimmune disease ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Novel pyrazole derivative as alk5 inhibitor and uses thereof. WO2018004290A1.

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

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