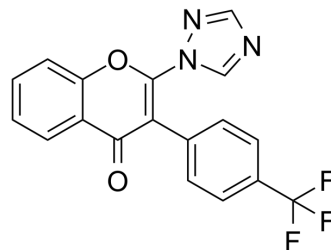


Chromenone 1

Cat. No.:	HY-143891
CAS No.:	1639929-29-5
Molecular Formula:	C ₁₈ H ₁₀ F ₃ N ₃ O ₂
Molecular Weight:	357.29
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	Chromenone 1 is a potent osteogenic bone morphogenetic protein (BMP) potentiator. Chromenone 1 exhibits a unique mode of action as it induces a pronounced, kinase-independent, negative TGFβ feedback that enhances nuclear BMP-Smad signaling outputs ^[1] .
In Vitro	Chromenone 1 rescues DMH-1-induced cardiogenesis (IC ₅₀ =0.2 μM) and efficiently stimulates BMP-dependent osteogenesis from C2C12 myoblasts ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wessler F, et al. Probing Embryonic Development Enables the Discovery of Unique Small-Molecule Bone Morphogenetic Protein Potentiators. *J Med Chem.* 2022;65(5):3978-3990.

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

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