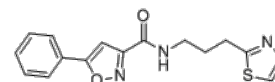


Product Name : YAP activator PY-60
Cat. No. : PC-38304
CAS No. : 2765218-56-0
Molecular Formula : C₁₆H₁₅N₃O₂S
Molecular Weight : 313.375
Target : YAP-TEAD
Solubility : 10 mM in DMSO



Biological Activity

YAP activator PY-60 (PY-60) is a novel small molecule **activator of YAP** transcriptional activity (EC₅₀=1.5 uM) via targeting **annexin A2** (ANXA2).

PY-60 dose-dependently induced luciferase activity in 293A-TEAD-LUC cells, robustly activated YAP transcriptional activity in vitro.

PY-60 treatment robustly increased the levels of YAP-controlled transcripts (ANRKD1, CYR61 and CTGF) in 293A cells and other human cell lines (MCF10A, HEK293T, H69 and HaCaT), but did not augment the levels of YAP itself (YAP1).

PY-60 promotes YAP-dependent expansion of epidermal keratinocytes in mouse following topical drug administration. Annexin A2 (ANXA2) is a protein that directly associates with YAP at the cell membrane in response to increased cell density.

PY-60 treatment liberates ANXA2 from the membrane, ultimately promoting a phosphatase-bound, nonphosphorylated and transcriptionally active form of YAP.

References

Shalhout SZ, et al. *Nat Chem Biol*. 2021 Jul;17(7):767-775.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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