

Product Data Sheet

Cas No.:		Cat. No:	PL13233
Product Name:	PY-60		
Product synonym:	-		
Chemical name:	PY-60		
MF:	-	FW:	-
Purity:	≥98%	Batch No.:	-
Storage:			
λmax:	-	Formulation:	-
Solubility :	-		
SMILES :	-		
InChI Code:	-		
InChI Key:	-		
WARNING This product is not for human or veterinary use.			

Product Description

PY-60 是一种靶向膜联蛋白A2 (ANXA2) 的 YAP 转录活性的特异的激活剂 ($K_d=1.4 \mu\text{M}$)。PY-60 直接与 ANXA2 结合并拮抗其抑制 YAP 活性的正常细胞功能。

生物活性	PY-60 is a robust and specific activator of YAP transcriptional activity that targets annexin A2 (ANXA2) with a K_d of $1.4 \mu\text{M}$. PY-60 directly binds to ANXA2 and antagonizes its normal cellular function of repressing YAP activity.
体外研究(In Vitro)	<p>PY-60 targets ANXA2 to activate YAP.</p> <p>PY-60, a thiazole-substituted derivative, dose-dependently induces luciferase activity in 293A-TEAD-LUC cells in the presence or absence of serum when cells were plated at high cell density ($EC_{50}=1.5$ and $1.6 \mu\text{M}$, respectively). PY-60 treatment also dose-dependently promoted the association of YAP and TEAD proteins in cells and induced the nuclear localization of YAP in response to increased cell density. PY-60 robustly increases the levels of YAP-controlled transcripts (that is, ANRKB1, CYR61 and CTGF) in 293A cells and other human cell lines (that is, MCF10A, HEK293T, H69 and HaCaT), but did not augment the levels of YAP itself (YAP1).</p> <p>PY-60 activates a proproliferative, YAP-dependent transcriptional program in the adult animal capable of remodeling the epidermis through proliferation.</p>
体内研究(In Vivo)	PY-60 ($10 \mu\text{M}$; applied topically to the dorsal skin of wild-type adult C57BL/6 mice over the course of 10 days) promotes a dramatic expansion of keratinocytes and K14-positive precursors, as assessed by hematoxylin and eosin and anti-K14 histological staining at the study end. PY-60 results in an approximate doubling of epidermal thickness, a result derived from an increased number of keratinocytes per unit length of skin. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years; 4°C 2 years
溶解度数据	In Vitro: DMSO : 100 mg/mL (319.11 mM; Need ultrasonic)配制储备液