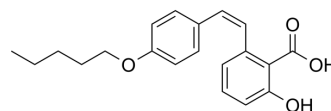


CAY10669

Cat. No.:	HY-117617
CAS No.:	1243583-88-1
Molecular Formula:	C ₂₀ H ₂₂ O ₄
Molecular Weight:	326.39
Target:	Histone Acetyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CAY10669 (compound 6d) is an anacardic acid (HY-N2020) derivative that inhibits histone acetyltransferase PCAF with an IC ₅₀ of 662 μM ^[1] . CAY10669 enhances the SAHA-induced acetylation in HEPG2 cells, exhibits cytotoxicity in zebrafish embryo, promotes transgene expression in CHO-K1 cells ^{[1][2][3]} .
IC ₅₀ & Target	PCAF 662 μM (IC ₅₀)

REFERENCES

- [1]. Ghizzoni M, et al., Improved inhibition of the histone acetyltransferase PCAF by an anacardic acid derivative. *Bioorg Med Chem*. 2010 Aug 15;18(16):5826-34.
- [2]. Farr GH 3rd, et al., A novel chemical-combination screen in zebrafish identifies epigenetic small molecule candidates for the treatment of Duchenne muscular dystrophy. *Skelet Muscle*. 2020 Oct 15;10(1):29.
- [3]. Christensen MD, et al., An inhibitor screen identifies histone-modifying enzymes as mediators of polymer-mediated transgene expression from plasmid DNA. *J Control Release*. 2018 Sep 28;286:210-223.

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

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