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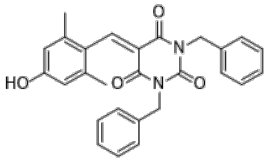
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.



Product Name	:	EML425
Cat. No.	:	PC-22924
CAS No.	:	1675821-32-5
Molecular Formula	:	$C_{27}H_{24}N_2O_4$
Molecular Weight	:	440.50
Target	:	Histone Methyltransferase (HMTase)
Solubility	:	10 mM in DMSO

Biological Activity

EML425 is a potent, selective, cell-permeable and reversible inhibitor of KAT3 histone acetyltransferases (CBP and p300) with IC50 of 1.1 and 2.9 uM respectively.
EML425 is inactive against the enzymes GCN5 and PCAF.
EML425 (50-100 uM) induced a marked and time-dependent reduction in the acetylation of lysine H4K5 and H3K9 in human leukemia U937 cells, a marked arrest in the G0/G1 phase.
EML425 is more potent and selective than curcumin and anacardic acid, with a potency comparable to that of C646.
EML425 is an invaluable chemical probe not only for mechanistic studies of p300-mediated lysine acetylation but also to further investigate the biological role of KAT3 enzymes.

References

Milite C, et al. J Med Chem. 2015 Mar 26;58(6):2779-98.

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

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