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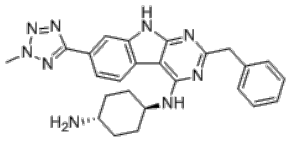
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	UM171
Cat. No.	:	PC-62316
CAS No.	:	1448724-09-1
Molecular Formula	:	$C_{25}H_{27}N_9$
Molecular Weight	:	487.94
Target	:	Histone Methyltransferase (HMTase)
Solubility	:	10 mM in DMSO



Biological Activity

UM171 (UM-171) is a potent agonist of human **hematopoietic stem cell (HSC) self-renewal**, shows 10 to 20 times more potent than UM729 with effective concentrations of 17 to 19 nM.
UM171 modulates the CoREST complex and causes **LSD1** degradation, potentiates the activity of a CULLIN3-E3 ubiquitin ligase (CRL3) complex.
UM171 triggers Cul3-KBTBD4-mediated degradation of ELM2 domain-harboring proteins.
UM171 (UM-171) enables a robust ex vivo expansion of human CB cells with functionally validated long-term in vivo repopulating capability.

References

Fares I, et al. ***Science.*** 2014 Sep 19;345(6203):1509-12.

Li X, et al. ***Stem Cell Res.*** 2017 May;21:32-39.

Zonari E, et al. ***Stem Cell Reports.*** 2017 Apr 11;8(4):977-990.

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

E-mail: tech@probechem.com