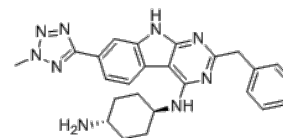


**Product Name** : UM171  
**Cat. No.** : PC-62316  
**CAS No.** : 1448724-09-1  
**Molecular Formula** : C<sub>25</sub>H<sub>27</sub>N<sub>9</sub>  
**Molecular Weight** : 487.94  
**Target** : Histone Methyltransferase (HMTase)  
**Solubility** : 10 mM in DMSO



### 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!**

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