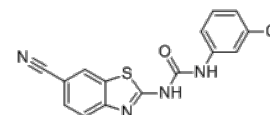


**Product Name** : HB007  
**Cat. No.** : PC-72801  
**CAS No.** : 2387821-46-5  
**Molecular Formula** : C<sub>15</sub>H<sub>9</sub>ClN<sub>4</sub>OS  
**Molecular Weight** : 328.78  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

HB007 (HB-007) is a small-molecule degrader of the small ubiquitin-related modifier 1 (**SUMO1**) with anticancer potency in vitro and in vivo.

HB007 selectively bound to cytoplasmic activation/proliferation-associated protein 1 (CAPRIN1), induced the interaction of CAPRIN1 with FBXO42, FBXO42 then recruited SUMO1 to the CAPRIN1-CUL1-FBXO42 ubiquitin ligase complex, where SUMO1 was ubiquitinated in several of human cancer cells.

HB007 selectively degraded SUMO1 in patient tumor-derived xenografts implanted into mice.

Systemic administration of HB007 inhibited the progression of patient-derived brain, breast, colon, and lung cancers in mice and increased survival of the animals.

## References

Anita C Bellail, et al. *Sci Transl Med.* 2021 Oct 13;13(615):eabh1486.

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

E-mail: tech@probechem.com