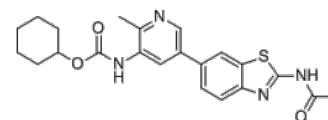


**Product Name** : PK68  
**Cat. No.** : PC-73017  
**CAS No.** : 2173556-69-7  
**Molecular Formula** : C<sub>22</sub>H<sub>24</sub>N<sub>4</sub>O<sub>3</sub>S  
**Molecular Weight** : 424.519  
**Target** : RIP kinase  
**Solubility** : 10 mM in DMSO



### Biological Activity

PK68 (RIPK1 inhibitor PK68) is a potent necroptosis inhibitor selectively targeting **RIPK1 kinase** activity, potently inhibits TNF-induced necroptosis (EC<sub>50</sub>, 23 and 13 nM in human and mouse cells, respectively).

PK68 blocks cellular activation of RIPK1, RIPK3, and MLKL upon necroptotic stimuli.

PK68 is a type II inhibitor of RIP1 kinase, highly selective inhibitor of RIPK1 kinase activity with IC<sub>50</sub> of 90 nM, does not affect RIPK3 kinase activity at 1 μM, also demonstrated a reasonable selectivity against a panel of 369 kinases.

PK68 exhibits a favorable pharmacokinetic profile and no obvious toxicity in mice.

PK68 ameliorates TNF-induced systemic inflammatory response syndrome, and displays preventive suppression of tumor metastasis in the mouse cancer models.

### References

Hou J, et al. *Cell Death Dis.* 2019 Jun 24;10(7):493.

Li Z, et al. *Eur J Med Chem.* 2022 Jan 15;228:114036.

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

E-mail: tech@probechem.com