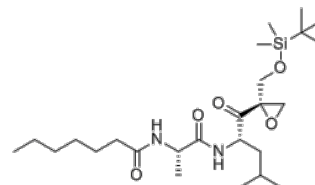


**Product Name** : UK-101  
**Cat. No.** : PC-60966  
**CAS No.** : 1000313-40-5  
**Molecular Formula** : C<sub>25</sub>H<sub>48</sub>N<sub>2</sub>O<sub>5</sub>Si  
**Molecular Weight** : 484.753  
**Target** : Proteasome  
**Solubility** : 10 mM in DMSO



## Biological Activity

UK-101 is a potent, specific immunoproteasome  $\beta$ 1i (**LMP2**) subunit inhibitor with IC<sub>50</sub> of 104 nM, 144- and 10-fold selectivity over  $\beta$ 1c and  $\beta$ 5 subunit respectively.

UK-101 induces apoptosis of PC-3 cells and results in significant inhibition (~50-60%) of tumour growth in vivo.

UK-101 does not block degradation of I $\kappa$ B $\alpha$  in PC-3 cells treated with TNF- $\alpha$ .

## References

de Bruin G, et al. *J Med Chem*. 2014 Jul 24;57(14):6197-209.

Wehenkel M, et al. *Br J Cancer*. 2012 Jun 26;107(1):53-62.

Lei B, et al. *J Phys Chem B*. 2010 Sep 30;114(38):12333-9.

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

E-mail: tech@probechem.com