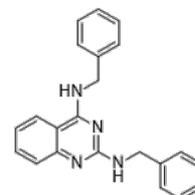


**Product Name** : DBeQ  
**Cat. No.** : PC-24319  
**CAS No.** : 177355-84-9  
**Molecular Formula** : C<sub>22</sub>H<sub>20</sub>N<sub>4</sub>  
**Molecular Weight** : 340.43  
**Target** : p97/VCP  
**Solubility** : 10 mM in DMSO



## Biological Activity

DBeQ is a selective, potent, reversible, and ATP-competitive AAA ATPase p97/VCP inhibitor with IC<sub>50</sub> of 1.5 μM and 1.6 μM for p97(wt) and p97(C522A) respectively, also inhibits VPS4 with IC<sub>50</sub> of 11.5 μM.

DBeQ blocks multiple processes that have been shown by RNAi to depend on p97, including degradation of ubiquitin fusion degradation and endoplasmic reticulum-associated degradation pathway reporters, as well as autophagosome maturation.

DBeQ also potently inhibits cancer cell growth at mobilizing the executioner caspases-3 and -7.

DBeQ enhances sorafenib-mediated toxicity in cultured hepatocellular carcinoma (HCC) cells.

## References

Chou TF, et al. Proc Natl Acad Sci U S A. 2011 Mar 22;108(12):4834-9.

Yi P, et al. Mol Cancer Ther. 2012 Dec;11(12):2610-20.

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

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