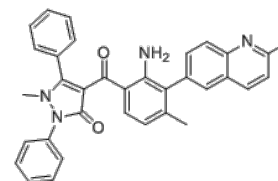


**Product Name** : AMG PERK 44  
**Cat. No.** : PC-49287  
**CAS No.** : 1883548-84-2  
**Molecular Formula** : C<sub>34</sub>H<sub>29</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 561.08  
**Target** : PERK  
**Solubility** : 10 mM in DMSO



## Biological Activity

AMG PERK 44 (AMG44) is a potent, highly selective, and orally active protein kinase RNA-like ER kinase (**PERK**) inhibitor with IC<sub>50</sub> of 6 nM, inhibits cellular PERK autophosphorylation (pPERK) with IC<sub>50</sub> of 84 nM.

AMG PERK 44 (AMG44) displays 1000-fold selectivity over GCN2, exquisite selectivity over a large panel of kinases.

AMG PERK 44 (AMG44) robustly inhibits PERK autophosphorylation (ED<sub>50</sub>=3 mg/kg; ED<sub>90</sub>=60 mg/kg) in a time course pharmacodynamic (PD) model assay.

## References

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Diego Rojas-Rivera, et al. *Cell Death Differ*. 2017 Jun;24(6):1100-1110.

Smith AL, et al. *J Med Chem* 2015; 58: 1426–1441.

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

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