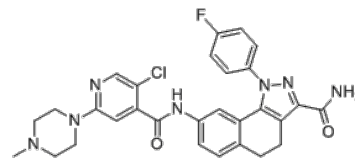


**Product Name** : PHA-408  
**Cat. No.** : PC-61094  
**CAS No.** : 503555-55-3  
**Molecular Formula** : C<sub>29</sub>H<sub>27</sub>ClFN<sub>7</sub>O<sub>2</sub>  
**Molecular Weight** : 560.03  
**Target** : IκB kinase (IKK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

PHA-408 (PHA-767408) is a potent, highly selective, ATP-competitive **IKK-2** inhibitor with IC<sub>50</sub> of 40 nM, 350-fold selectivity over IKK-1.

PHA-408 inhibits LPS-induced TNF-α production in PBMCs and HWB with IC<sub>50</sub> of 20-30 nM, prevents IL-1β-induced IκBα phosphorylation in RASFs while sparing the JNK and p38 MAPK pathways and has no effect on IKK-2 phosphorylation. PHA-408 demonstrates target-specific anti-inflammatory activities in in vivo model of airway inflammation.

## References

- Mbalaviele G, et al. *J Pharmacol Exp Ther.* 2009 Apr;329(1):14-25.  
Sommers CD, et al. *J Pharmacol Exp Ther.* 2009 Aug;330(2):377-88.  
Xie J, et al. *Bioorg Med Chem.* 2011 Feb 1;19(3):1242-55.

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

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