

Product Name	: PHA-408
Synonyms	: PHA-767408; PHA767408; PHA 408
Cat No.	: M14711
CAS Number	: 503555-55-3
Molecular Formula	: C ₂₉ H ₂₇ ClFN ₇ O ₂
Formula Weight	: 560.03
Chemical Name	: 8-[[[5-Chloro-2-(4-methyl-1-piperazinyl)-4-pyridinyl]carbonyl]amino]-1-(4-fluorophenyl)-4,5-dihydro-1H-benz[g]indazole-3-carboxamide
Description	: A novel potent, highly selective, ATP-competitive IKK-2 inhibitor with IC ₅₀ of 40 nM, 350-fold selectivity over IKK-1; inhibits LPS-induced TNF-α production in PBMCs and HWB with IC ₅₀ 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; demonstrates target-specific anti-inflammatory activities in in vivo model of airway inflammation.
Pathway	: Immunology/Inflammation
Target	: IκB kinase (IKK)
Receptor	: IκB kinase (IKK)
Solubility	: —
SMILES	: <chem>O=C(C1=NN(C2=CC=C(F)C=C2)C3=C1CCC4=CC=C(NC(C5=C(Cl)C=NC(N6CCN(C)CC6)=C5)=O)C=C43)N</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

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