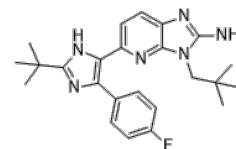


**Product Name** : Ralimetinib  
**Cat. No.** : PC-28600  
**CAS No.** : 862505-00-8  
**Molecular Formula** : C<sub>24</sub>H<sub>29</sub>FN<sub>6</sub>  
**Molecular Weight** : 420.54  
**Target** : p38 MAPK  
**Solubility** : 10 mM in DMSO



## Biological Activity

Ralimetinib (LY2228820) is a potent, selective, orally available inhibitor of **p38 MAPK** with IC<sub>50</sub> of 5.3 and 3.2 nM for **p38α** and **p38β**, respectively.

Ralimetinib (LY2228820) potently and selectively inhibits phosphorylation of MK2 (Thr334) in anisomycin-stimulated HeLa cells and mouse RAW264.7 macrophages (IC<sub>50</sub>=35.3 nM), with no changes in phosphorylation of p38α MAPK, JNK, ERK1/2, c-Jun, ATF2, or c-Myc.

Ralimetinib (LY2228820) also reduces TNF-α secretion by LPS/IFN-γ-stimulated macrophages with IC<sub>50</sub> of 6.3 nM.

Ralimetinib (LY2228820) produces significant tumor growth delay in multiple in vivo cancer models (melanoma, non-small cell lung cancer, ovarian, glioma, myeloma, breast).

## References

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 Campbell RM, et al. *Mol Cancer Ther*. 2014 Feb;13(2):364-74.  
 Ishitsuka K, et al. *Br J Haematol*. 2008 May;141(5):598-606.  
 Patnaik A, et al. *Clin Cancer Res*. 2016 Mar 1;22(5):1095-102.

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

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