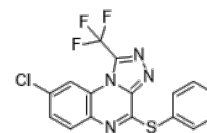


**Product Name** : R-7050  
**Cat. No.** : PC-22719  
**CAS No.** : 303997-35-5  
**Molecular Formula** : C<sub>16</sub>H<sub>8</sub>ClF<sub>3</sub>N<sub>4</sub>S  
**Molecular Weight** : 380.77  
**Target** : TNF Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

R-7050 is a specific small molecule TNF-alpha receptor (TNFR) antagonist with EC50 of 0.63 uM for TNF $\alpha$ -induced ICAM-1 expression inhibition, shows greater selectivity toward TNF $\alpha$ .

R-7050 displays 2- to 3-fold greater than EC50 for IL-1 $\beta$ -induced ICAM-1 expression (1.45  $\mu$ M).

R-7050 inhibits phosphorylation of both the c-Jun N-terminal kinase (JNK) pathway (MKK4, JNKs, and ATF2) and p38 pathway (MKK3/6, p38, and MAPKAP2), inhibits interaction between TNF $\alpha$ RI, RIP1, and TRADD.

R-7050 blocks internalization of the TNF $\alpha$  ligand-receptor complex. exhibited inhibitory effects only in TNF $\alpha$  and LPA receptor systems, but not in IL-1 $\beta$ R, InsulinR, IGFR, or EGFR.

## References

King MD, et al. Neurosci Lett. 2013 May 10;542:92-6.

Gururaja TL, et al. Chem Biol. 2007 Oct;14(10):1105-18.

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

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