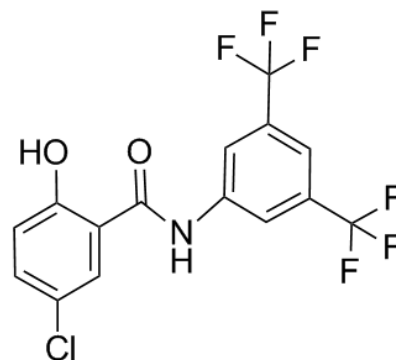


**Product Name** : IMD-0354  
**Cat. No.** : PC-42418  
**CAS No.** : 978-62-1  
**Molecular Formula** : C<sub>15</sub>H<sub>8</sub>ClF<sub>6</sub>NO<sub>2</sub>  
**Molecular Weight** : 383.6729  
**Target** : IκB kinase (IKK)  
**Solubility** : 100 mM in DMSO; 100 mM in Ethanol

1. Yongmei Feng, et al. *Mol Cancer Ther.* 2021 May;20(5):816-832.  
 2. Liu Y, et al. *Biochem Biophys Res Commun.* 2020 May 7;525(3):589-594.  
 3. Ogawa H, et al. *Clin Exp Allergy.* 2011 Jan;41(1):104-15.



## Biological Activity

IMD-0354 (AER-270) is a potent IκB kinase β (**IKKbeta**) inhibitor, also is a potent inhibitor of glutamine uptake. IMD-0354 ameliorated airway hyperresponsiveness and reduced the numbers of bronchial eosinophils and mucus-producing cells in OVA-sensitized mice.

IMD-0354 inhibits NF-κB activation and reduces the numbers of bronchial eosinophils.

IMD-0354 inhibits IL-13 and IL-1β production, and it restored the production of IFN-γ.

IMD-0354 attenuates mTOR signaling, suppressed two- and three-dimensional growth of melanoma cells, and induces cell-cycle arrest, autophagy, and apoptosis in melanoma.

IMD-0354 suppressed melanoma growth in a xenograft model.

IMD-0354 (AER-270) also is a selective, small molecule inhibitor of aquaporin-4 (**AQP4**) with IC<sub>50</sub> of 0.24 μM, reduce AQP4-mediated water permeability.

## References

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

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