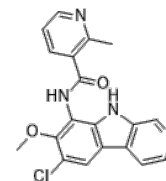


**Product Name** : MLN120B  
**Cat. No.** : PC-23156  
**CAS No.** : 783348-36-7  
**Molecular Formula** : C<sub>19</sub>H<sub>15</sub>ClN<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 366.81  
**Target** : IκB kinase (IKK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

MLN120B (ML120B) is a potent, specific and ATP competitive inhibitor of IKKbeta (IKK $\beta$ ) with IC<sub>50</sub> of 0.06  $\mu$ M, blocks TNF- $\alpha$ -induced NF- $\kappa$ B activation in multiple myeloma cells through inhibition of I $\kappa$ B $\alpha$  phosphorylation and degradation of I $\kappa$ B $\alpha$ . MLN120B is greater than 1000 times more potent in inhibiting IKK $\beta$  than other inhibiting kinases, does not inhibit IKK $\alpha$ . MLN120B inhibited IL-6 and RANTES production in response to LPS in a dose-dependent manner with IC<sub>50</sub> of 1  $\mu$ M on LPS induced primary cells. MLN120B inhibits NF- $\kappa$ B activation and rapidly induces apoptosis in lymphoid organs in vivo.

## References

- Hideshima T, et al. Clin Cancer Res. 2006 Oct 1;12(19):5887-94.  
Hideshima T, et al. Blood. 2009 May 21;113(21):5228-36.  
Nagashima K, et al. Blood. 2006 Jun 1;107(11):4266-73.

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

E-mail: tech@probechem.com