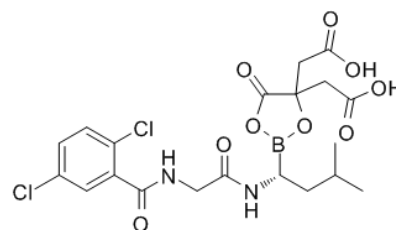


Product Name : MLN9708
Cat. No. : PC-42595
CAS No. : 1239908-20-3
Molecular Formula : C₂₀H₂₃BCl₂N₂O₉
Molecular Weight : 517.1216
Target : Proteasome
Solubility : 10 mM in DMSO



Biological Activity

Ixazomib citrate (MLN9708) is a potent, selective, orally bioavailable **proteasome** inhibitor with IC₅₀ of 3.4 nM.

Ixazomib citrate (MLN9708) binds to and inhibits the chymotrypsin-like proteolytic (β 5) site of the 20S proteasome with K_i of 0.93 nM, weakly inhibits the caspase-like (β 1) and trypsin-like (β 2) proteolytic sites (IC₅₀ of 31 and 3,500 nM).

Ixazomib citrate (MLN9708) inhibits growth and induces apoptosis in MM cells.

Ixazomib citrate (MLN9708) shows improved antitumor activity in models of lymphoma compared with bortezomib.

References

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Chauhan D, et al. *Clin Cancer Res.* 2011 Aug 15;17(16):5311-21.

Lee EC, et al. *Clin Cancer Res.* 2011 Dec 1;17(23):7313-23.

Tian Z, et al. *Blood.* 2012 Nov 8;120(19):3958-67.

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

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