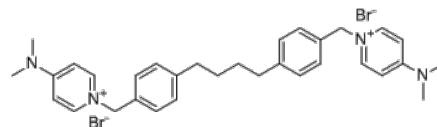


**Product Name** : MN58b  
**Cat. No.** : PC-60866  
**CAS No.** : 203192-01-2  
**Molecular Formula** : C<sub>32</sub>H<sub>40</sub>Br<sub>2</sub>N<sub>4</sub>  
**Molecular Weight** : 640.508  
**Target** : Choline Kinase (ChoK)  
**Solubility** : 10 mM in DMSO



### Biological Activity

MN58b is a potent, selective choline kinase  $\alpha$  (**ChoK $\alpha$** ) inhibitor with IC<sub>50</sub> of 1.4  $\mu$ M, >30-fold selectivity over ChoK $\beta$  and does not affect MAPKs, PI3Ks, and other enzymes involved in the regulation of phospholipid metabolism. MN58b demonstrates antiproliferative properties against human tumor-derived cell lines (HT29 IC<sub>50</sub>=0.5  $\mu$ M) and antitumor activity against human tumor xenografts in vivo.

### References

- Lacal JC, et al. *Mol Cancer Ther.* 2015 Jan;14(1):31-9.  
Hernández-Alcoceba R, et al. *Cancer Res.* 1999 Jul 1;59(13):3112-8.  
Al-Saffar NM, et al. *Cancer Res.* 2006 Jan 1;66(1):427-34.  
Guma M, et al. *Ann Rheum Dis.* 2015 Jul;74(7):1399-407.

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

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