

Data Sheet

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Product Name : Xanomeline oxalate

Molecular Weight:

Target : mAChR

Solubility : 10 mM in DMSO

Biological Activity

Xanomeline oxalate (LY246708, NNC 110232) is a potent, specific M1 muscarinic agonist with functional selectivity for M1 receptor (binding IC50 of 6 pM in the rabbit vas deferens); displays low affinity for M2 receptors in guinea pig atria (EC50=3 uM); xanomeline increases striatal levels of dopamine metabolites, presumably by acting at M1 heteroreceptors on dopamine neurons to increase dopamine release in vivo; inhibits ex vivo binding of muscarinic radioligands to homogenates of brain and the inhibition of ex vivo binding occurred in the same dose range as increases in DOPAC levels; xanomeline is selective agonist for M1 over M2 and M3 receptors in vivo in rats.

Phase 3 Discontinued

References

Shannon HE, et al. J Pharmacol Exp Ther. 1994 Apr;269(1):271-81.

Sauerberg P, et al. J Med Chem. 1992 Jun 12;35(12):2274-83.

Bymaster FP, et al. J Pharmacol Exp Ther. 1994 Apr;269(1):282-9.

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

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