

PF-04620110 is a highly selective inhibitor of DGAT-1 with >100-fold selectivity against a panel of lipid processing enzymes (human DGAT-2, several human acyl-CoA: cholesterol acyltransferase-1, wax alcohol acyltransferase-1/-2 and monacylglycerol acyltransferase-2/-3, and mouse MGAT-1)^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

PF-04620110 (0.1-10 mg/kg; p.o.) reduces plasma triglyceride levels at doses of ≥ 0.1 mg/kg following a lipid challenge in rat ^[2].

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Animal Model:	Sprague-Dawley rats ^[2]
Dosage:	0.1 mg/kg, 1 mg/kg, 10 mg/kg
Administration:	Oral administration
Result:	Produced a statistically significant reduction in plasma triglyceride excursion at 2 hours to near prelipid load levels.

CUSTOMER VALIDATION

- Physiol Rep. 2020 Aug;8(15):e14542.

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REFERENCES

[1]. Dow RL, et al. Design and synthesis of potent, orally-active DGAT-1 inhibitors containing a dioxino[2,3-d]pyrimidine core. Bioorg Med Chem Lett. 2011 Oct 15;21(20):6122-5.

[2]. Dow RL, et al. Discovery of PF-04620110, a Potent, Selective, and Orally Bioavailable Inhibitor of DGAT-1. ACS Med Chem Lett. 2011 Mar 18;2(5):407-12.

Caution: Product has not been fully validated for medical applications. For research use only.

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