

Product Name	: PF-04620110
Synonyms	: PF 04620110; PF04620110
Cat No.	: M10407
CAS Number	: 1109276-89-2
Molecular Formula	: C ₂₁ H ₂₄ N ₄ O ₄
Formula Weight	: 396.44
Chemical Name	: Cyclohexanecarboxylic acid, 4-[4-(4-amino-7,8-dihydro-5-oxopyrimido[5,4-f][1,4]oxazepin-6(5H)-yl)phenyl]-, trans-
Description	PF-04620110 is a potent, selective, orally bioavailable DGAT-1 inhibitor with IC₅₀ of 19 nM, shows no activity for DGAT-2 (IC₅₀>30 μM); shows high selectivity versus a broad panel of off-target pharmacologic end points; inhibits triglyceride synthesis of 3 in the intestinal-derived HT-29 cell line with IC₅₀ of 8 nM; demonstrates in vivo DGAT-1 inhibition through reduction of plasma triglyceride levels in rodent, alters the temporal and spatial pattern of dietary lipid absorption in vivo. Diabetes Phase 1 Discontinued
Pathway	: Metabolic Enzyme/Protease
Target	: DGAT
Receptor	: DGAT1
Solubility	: 10 mM in DMSO
SMILES	: <chem>C1CC(CCC1CC(=O)O)C2=CC=C(C=C2)N3CCOC4=NC=NC(=C4C3=O)N</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Dow RL, et al. ACS Med Chem Lett. 2011 Mar 18;2(5):407-12. | 2. Maciejewski BS, et al. Am J Physiol Gastrointest Liver Physiol. 2013 Jun 1;304(11):G958-69. | 3. Maciejewski BS, et al. World J Gastrointest Pathophysiol. 2017 Nov 15;8(4):161-175.