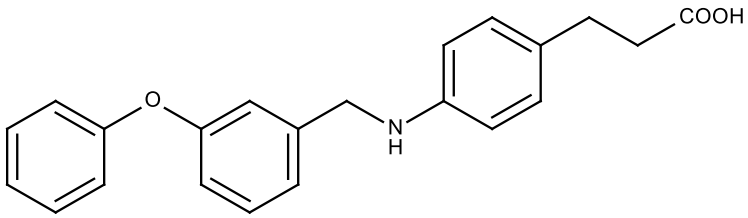
Catalog # 10-1108

GW-9508

CAS# 885101-89-3

4-(3-Phenoxybenzylamino)phenylpropionic acid

Lot # FBA1183



Selective agonist at the free fatty acid receptor, FFA1/4, (GPR40 and GPR120).[1] Displays anti-allodynic and anti-hyperalgesic effects in mouse inflammatory and neuropathic pain models.[2] Inhibits LPA-induced proliferation of DU145 and PC-3 cells.[3] Decreases hepatic lipid accumulation in a high fat diet steatosis mouse model.[4] Promotes brown adipose tissue thermogenesis.[5]

1) Briscoe *et al*. (2006) *Pharmacological regulation of insulin secretion in MIN6 cells through the fatty acid receptor GPR40: identification of agonist and antagonist molecules*, Br. J. Pharmacol. **148** 619
2) Karki *et al.* (2015), *Attenuation of inflammatory and neuropathic pain behaviors in mice through activation of free fatty acid receptor GPR40*; Mol. Pain, **11** 6
3) Liu *et al.* (2015), *Omega-3 fatty acids and other FFA4 agonists inhibit growth factor signaling in human prostate cancer cells*; J. Pharmacol. Exp. Ther., **352** 380
4) Ou *et al.* (2014), *Activation of free fatty acid receptor 1 improves hepatic steatosis through a p38-dependent pathway*; J. Mol. Endocrinol., **53** 165
5) Kim *et al.* (2016), *Eicosapentaenoic Acid Potentiates Brown Thermogenesis through FFAR4-dependent Up-regulation of miR-30b and miR-378*; J. Biol. Chem., **291** 20551

PHYSICAL DATA

Molecular Weight:	347.41
Molecular Formula:	$C_{22}H_{21}NO_3$
Purity:	>98% (TLC: 40% Ethyl acetate/hexanes; R_f = 0.31)
Solubility:	DMSO (up to 25 mg/ml) or ethanol (up to 25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at RT for up to one year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months

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