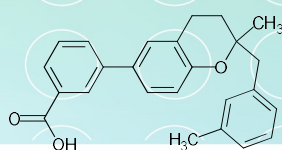


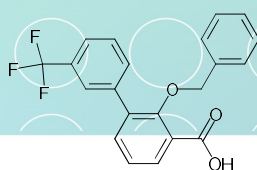
## SL-88. Free Fatty Acid Receptor Regulators

The nonesterified or “free” fatty acids (FFA) family of receptors are receiving interest as novel targets for the treatment of metabolic and inflammatory diseases [1]. Understanding of the complex pharmacology of these receptors using small molecule probing tools is critical for unlocking their rich therapeutic potential. For many members of this receptor family both agonist and antagonists modulators have been reported [1].

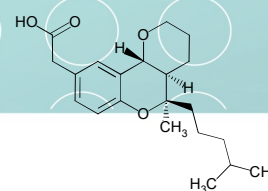
Known small molecule agonists of FFA receptors share some common pharmacophoric features, such as a carboxylic acid moiety attached directly or via an aliphatic tail to an aromatic core. A pharmacophore search through ASINEX’s compound collection identified several hits that can be explored for FFA research and drug discovery.



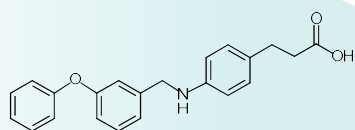
LAS 51190849



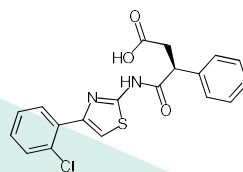
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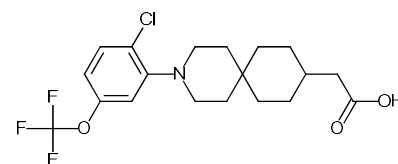
LAS 51190167



GW9508 (FFA1 agonist)



Cmpd 44 (FFA2 agonist)



Cmpd 60 (FFA4 agonist)

### Signature Library 88

Formats	Supplementary Information
80 compounds per plate 0.1 mg; 1 mg; 2 mg dry film/powder 0.1 μmol; 1 μmol DMSO solutions	SL#88_FFAR_reg.sdf

### References:

1. *Chem. Rev.*, 2017, 117 (1), pp 67–110. doi: 10.1021/acs.chemrev.6b00056

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