



Catalog # 10-1137

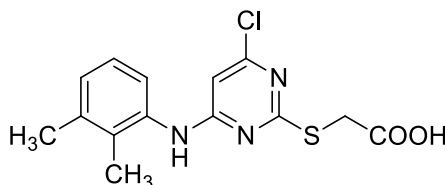
WY-14643

CAS# 50892-23-4

4-Chloro-6-(2,3-xylidino)-2-pyrimidinylthioacetic acid

Pirinixic acid

Lot # P101204



Selective PPAR α agonist (EC_{50} =0.63, 32 and >100 μ M for PPAR α , γ and δ , respectively).¹ Displays anti-inflammatory activity² and reduces LPS-induced inflammation in alveolar epithelial cells³. Induces “browning” of white adipocytes in combined treatment with retinoic acid.⁴ Stimulates ADAM10-mediated proteolysis of amyloid precursor protein in a mouse model.⁵ Down regulates NF κ B transcriptional activity. Review.⁶

- 1) Forman *et al.* (1997), *Hypolipidemic drugs, polyunsaturated fatty acids and eicosanoids are ligands for peroxisome proliferator-activated receptors alpha and delta*; Proc. Natl. Acad. Sci. USA, **94** 4312
- 2) Devchand *et al.* (1996), *The PPARalpha-leukotriene B4 pathway to inflammation control*; Nature, **384** 39
- 3) Heckler *et al.* (2015), *PPAR-a activation reduced LPS-induced inflammation in alveolar epithelial cells*; Exp. Lung Res., **41** 393
- 4) Wang *et al.* (2015), *WY14643 combined with all-trans retinoic acid acts via p38 MAPK to induce “browning” of white adipocytes in mice*; Genet. Mol. Res., **14** 6978
- 5) Corbett *et al.* (2015), *Activation of peroxisome proliferator-activated receptor alpha stimulates ADAM10-mediated proteolysis of APP*; Proc. Natl. Acad. Sci. USA, **112** 8445
- 6) Merk *et al.* (2015), *Pirinixic acids: flexible fatty acid mimetics with various biological activities*; Future Med. Chem., **7** 1597

PHYSICAL DATA

Molecular Weight:	323.80
Molecular Formula:	C ₁₄ H ₁₄ ClN ₃ O ₂ S
Purity:	98% by HPLC
	NMR: (Conforms)
	MS: (Conforms)
Solubility:	DMSO (up to 40 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 5 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 6 months.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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