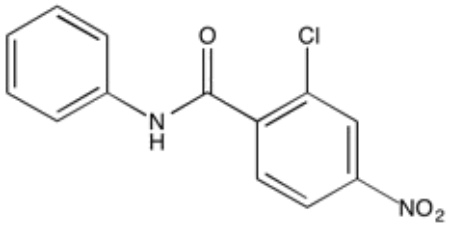
Catalog # 10-2622

GW-9662

22978-25-2

2-Chloro-5-nitrobenzanilide

Lot # X101902



Selective PPARγ antagonist (IC_{50} = 3.3, 32 and 2000 nM for PPARγ, PPARα and PPARδ respectively).[1] Blocks the inhibition of osteoclast formation induced by IL-4 (1-2 μM).[2] Displays anticancer activity inhibits growth of human mammary tumor cell lines.[3] A useful tool for dissecting the involvement of PPARγ in cellular physiology.[4,5]

1) Leesnitzer *et al*. (2002), *Functional consequences of cysteine modification in the ligand binding sites of peroxisome proliferator activated receptors by GW9662*; Biochemistry, **41** 6640
2) Bendixen *et al*. (2001), *IL-4 inhibits osteoclast formation through a direct action on osteoclast precursors via peroxisome proliferator-activated receptor gamma 1*; Proc. Natl. Acad. Sci. USA, **98** 2443
3) Seargent *et al*. (2004), *GW9662, a potent antagonist of PPARgamma inhibits growth of breast cancer tumour cells and promotes the anticancer effects of the PPARgamma agonist rosiglitazone, independently of PPARgamma activation*; Br. J. Pharmacol., **143** 933
4) Cheng *et al*. (2014), *ß-Caryophyllene Ameliorates the Alzheimer-Like Phenotype in APP/PS1 Mice through CB2 Receptor Activation and the PPARγ Pathway*; Pharmacology, **94** 1
5) Liu *et al*. (2014), *Curcumin protects neurons against oxygen-glucose deprivation/reoxygenation-induced injury through activation of peroxisome proliferator-activated-γ function*; J. Neuro. Sci. Res., **92** 1549

PHYSICAL DATA

Molecular Weight:	276.68
Molecular Formula:	$C_{13}H_9ClN_2O_3$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 10 mg/ml with warming)
Physical Description:	White or Off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years 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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