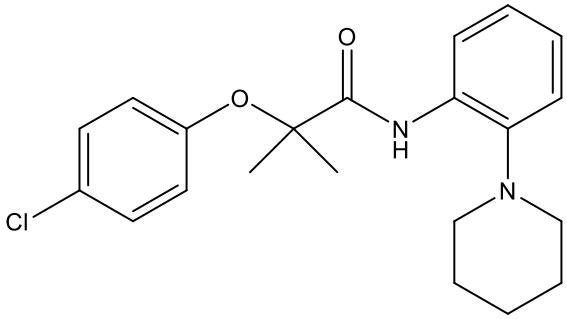
Catalog # 10-1606

SMED-1

2-(4-Chlorophenoxy)-2-methyl-N-(2-(piperidin-1-yl)phenyl)propanamide

Lot # X103122



A dexamethasone (Dex) sensitizer. SMED-1 was discovered in a screen designed to identify compounds that sensitize Dex-resistant ALL xenografts to Dex.[1] The assay employed Dex-resistant ALL-19 cells which are resistant at concentrations up to 850 μM. In contrast ALL-3 cells are sensitive to nanomolar concentrations of Dex (IC_{50}=12 nM).[2] SMED-1 displays strong synergism at 10 μM plus 1 μM Dex and exhibits little activity alone (IC_{50}>20 μM). SMED-1 is Dex-synergistic in ALL-3, ALL-4 and ALL-16 xenografts but is antagonistic with ALL-31. Synergy is highest when drugs are given simultaneously.[1]

1) Toscan *et al*. (2014), *High-throughput screening of human leukemia xenografts to identify dexamethasone sensitizers*; J. Biomol. Screen., **19** 1391

2) Liem *et al*. (2004), *Characterization of childhood acute lymphoblastic leukemia xenograft models for the preclinical evaluation of new therapies*; Blood, **103** 3905

PHYSICAL DATA

Molecular Weight:	372.89
Molecular Formula:	$C_{21}H_{25}ClN_2O_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) , DMF (up to 30 mg/ml) or Ethanol (up to 20 mg/ml)
Physical Description:	Pale grey solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO, DMF or ethanol may be stored at -20°C for up to 2 months.

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

www.focusbiomolecules.com