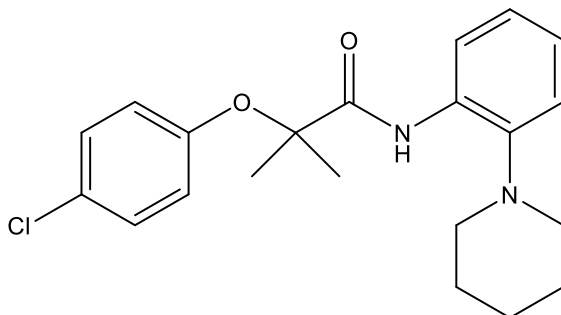


**Catalog # 10-1606**

**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.<sup>1</sup> The assay employed Dex-resistant ALL-19 cells which are resistant at concentrations up to 850  $\mu$ M. In contrast ALL-3 cells are sensitive to nanomolar concentrations of Dex ( $IC_{50}$ =12 nM).<sup>2</sup> SMED-1 displays strong synergism at 10  $\mu$ M plus 1  $\mu$ M Dex and exhibits little activity alone ( $IC_{50}$ >20  $\mu$ M). 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.<sup>1</sup>

- 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 <sub>21</sub> H <sub>25</sub> ClN <sub>2</sub> O <sub>2</sub>
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.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**