

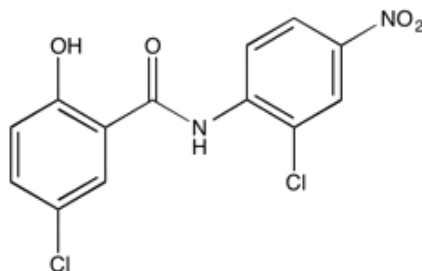
Catalog # 10-2474

Niclosamide

CAS# 50-65-7

5-Chloro-N-(2-chloro-4-nitrophenyl)-2-hydroxybenzamide

Lot # X104224



Reversibly inhibits mTORC1 signaling and stimulates autophagy¹. Inhibits activation and nuclear translocation of STAT3 selectively over STAT1 and STAT5. Inhibits transcription of STAT3 target genes and induces cell cycle arrest and apoptosis in cells with constitutively active STAT3².

- 1) Balgi *et al.* (2009), *Screen for chemical modulators of autophagy reveals novel therapeutic inhibitors of mTORC1 signaling*; PloS One, **4** e7124
- 2) Ren *et al.* (2010), *Identification of Niclosamide as a New Small-Molecule Inhibitor of the STAT3 Signaling Pathway*; ACS Med. Chem. Lett., **1** 454

PHYSICAL DATA

Molecular Weight:	327.13
Molecular Formula:	C ₁₃ H ₈ Cl ₂ N ₂ O ₄
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 3 mg/ml) or Ethanol (up to 6 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at room temperature for up to 3 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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