



Niclosamide

Data Sheet

Catalog Number:	MC11112	Product Type:	Small Molecule
Bio-Activity:	STAT3 signaling inhibitor	CAS #:	50-65-7
Research Categories:	Cell death, ubiquitin/proteasome, cancer, parasites, inflammation, infectious disease	Chemical Name:	5-Chloro-N-(2-chloro-4-nitrophenyl)-2-hydroxybenzamide
Solubility:	Soluble in DMSO (up to 3 mg/ml), or in Ethanol (up to 6 mg/ml).	Molecular Formula:	C ₁₃ H ₈ Cl ₂ N ₂ O ₄
Purity:	> 98%	Molecular Weight:	327.13
Format:	Powder	Ship Temp:	Ambient
Storage:	Room Temperature		

Application Notes

Description/Data:

Reversibly inhibits mTORC1 signaling and stimulates autophagy [1]. 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 STAT3 [2].

References:

- 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

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