

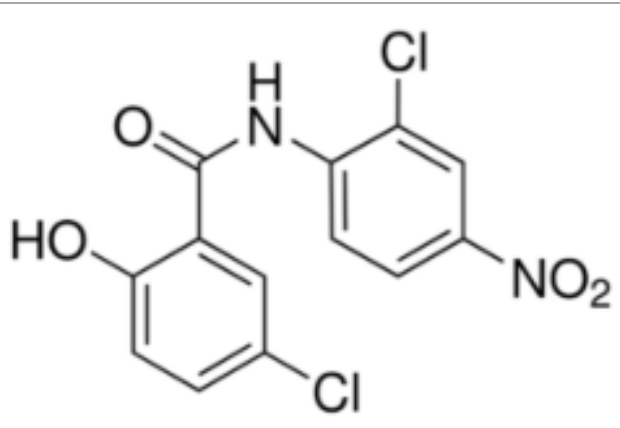
# Niclosamide

SIH-406-1G

## Overview

<b>Product Name</b>	Niclosamide Small Molecule
<b>Unit Size</b>	1g
<b>Description</b>	Autophagy inducer
<b>Purity</b>	>98% (TLC); NMR (Conforms)

## Technical Data

<b>Alternative Name(s)</b>	5-Chloro-N-(2-chloro-4-nitrophenyl)-2-hydroxybenzamide
<b>Formula</b>	C <sub>13</sub> H <sub>8</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>
<b>CAS#</b>	50-65-7
<b>Molecular Weight</b>	327.12
<b>Chemical Structure</b>	
<b>Solubility</b>	Soluble to 25 mM in ethanol and to 10 mM in DMSO
<b>Source</b>	Synthetic
<b>Appearance</b>	Pale yellow solid
<b>Storage Conditions</b>	4°C; 1 year+
<b>Shipping Temperature</b>	Shipped Ambient
<b>SMILES</b>	<chem>C2=C(C(NC1=C(C=C([N+](=O)[O-])C=C1Cl)=O)C(=CC=C2Cl)O</chem>
<b>Research Area(s)</b>	Autophagy

## Biological Description

<b>Function</b>	Niclosamide is part of the anthelmintics drug class, which are used to treat tapeworm infections in humans. Niclosamide has been shown to selectively inhibit the Stat-3 signalling pathway, specifically by inhibiting its activation, nuclear translocation and transcriptional activity. It has also been reported that Niclosamide inhibits mTORC1, thereby inducing autophagy and increasing the formation of autophagosomes.  1. Pan J.X., et al. (2012) Chin J Cancer. 31(4): 178-84.
<b>Product Citations</b>	PubMed ID: N/A

# Material Safety Data Sheet

## Niclosamide SIH-406-1G

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

---

### Regulatory Information

Classification: Not WHMIS controlled.

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

---

### Physical Data

This product consists of powder, shipped at ambient temperatures. The physical properties of this product have not been investigated thoroughly. CAS Number: 50-65-7

---

### Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

---

### Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

---

### Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

---

### Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

---

### First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.