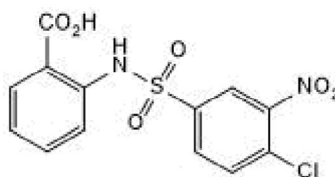


**Product Name:** CTPI 2  
**CAS Number:** 68003-38-3  
**IUPAC Name:** 2-[[4-Chloro-3-nitrophenyl)sulfonyl]amino]benzoic acid

**Catalog No.:** 7794      **Batch No.:** 1

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>13</sub>H<sub>9</sub>ClN<sub>2</sub>O<sub>6</sub>S.  
**Batch Molecular Weight:** 356.74  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	43.77	2.54	7.85
Found	43.98	2.42	7.73

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**Product Name:** CTPI 2

**Catalog No.:** 7794

1

CAS Number: 68003-38-3

IUPAC Name: 2-[[4-Chloro-3-nitrophenyl)sulfonyl]amino]benzoic acid

**Description:**

CTPI 2 is a selective mitochondrial citrate transporter (SLC25A1) inhibitor with a  $K_D$  of 3.5  $\mu$ M. CTPI 2 inhibits the proliferation of H1299 cells in a SLC25A1-dependent manner. It also re-sensitizes T1, T2, and T4 cells to Cisplatin (Cat. No. 2251). CTPI 2 inhibits tumor growth in in vivo models of non-small cell lung cancer (NSCLC). In high-fat diet fed mice CTPI 2 regulates glycolysis, prevents steatohepatitis and normalizes glucose tolerance and insulin sensitivity. CTPI 2 influences the inflammatory pathway by inhibiting IL-6 and TNF $\alpha$  production and M1 macrophage polarization.

**Physical and Chemical Properties:**

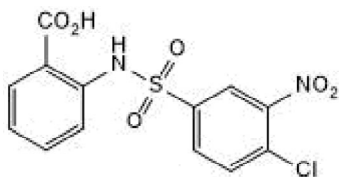
Batch Molecular Formula: C<sub>13</sub>H<sub>9</sub>ClN<sub>2</sub>O<sub>6</sub>S.

Batch Molecular Weight: 356.74

Physical Appearance: Beige solid

**Minimum Purity:**  $\geq$ 98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Batchuluun et al** (2022) Lipogenesis inhibitors: therapeutic opportunities and challenges. *Nat.Rev.Drug Discov.* **21** 283. PMID: 35031766.

**Tan et al** (2020) Inhibition of the mitochondrial citrate carrier, Slc25a1, reverts steatosis, glucose intolerance, and inflammation in preclinical models of NAFLD/NASH. *Cell Death Differ.* **27** 2143. PMID: 31959914.

**Fernandez et al** (2018) The mitochondrial citrate carrier, SLC25A1, drives stemness and therapy resistance in non-small cell lung cancer. *Cell Death Differ.* **25** 1239. PMID: 29651165.

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