

**Product Name:** TCID

**Catalog No.:** 5179

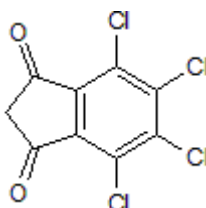
**Batch No.:** 1

**CAS Number:** 30675-13-9

**IUPAC Name:** 4,5,6,7-Tetrachloro-1*H*-Indene-1,3(2*H*)-dione

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>9</sub>H<sub>2</sub>Cl<sub>4</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 283.92  
**Physical Appearance:** Purple solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	38.07	0.71	
Found	38.11	0.71	

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

**Product Name:** TCID

**Catalog No.:** 5179

**Batch No.:** 1

**CAS Number:** 30675-13-9

**IUPAC Name:** 4,5,6,7-Tetrachloro-1*H*-Indene-1,3(2*H*)-dione

**Description:**

Selective ubiquitin C-terminal hydrolase-L3 (UCH-L3) inhibitor ( $IC_{50}$  = 0.6  $\mu$ M). Exhibits >100-fold selectivity for UCH-L3 over UCH-L1. Diminishes glycine transporter GlyT2 ubiquitination in brain stem and spinal cord primary neurons.

**Physical and Chemical Properties:**

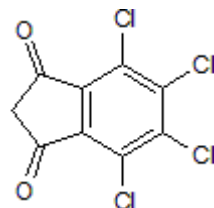
Batch Molecular Formula: C<sub>9</sub>H<sub>2</sub>Cl<sub>4</sub>O<sub>2</sub>

Batch Molecular Weight: 283.92

Physical Appearance: Purple solid

**Minimum Purity:** >99%

**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 50 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. Our standard recommendations are:

**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:**

**Liu *et al*** (2003) Discovery of inhibitors that elucidate the role of UCH-L1 activity in the H1299 lung cancer cell line. *Chem.Biol.* **10** 837. PMID: 14522054.

**de Juan-Sanz *et al*** (2013) Constitutive endocytosis and turnover of the neuronal glycine transporter GlyT2 is dependent on ubiquitination of a C-terminal lysine cluster. *PLoS ONE* **8** e58863. PMID: 23484054.

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

Tocris Bioscience is an R&D Systems company  
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373  
[www.RnDSystems.com](http://www.RnDSystems.com)

**R&D**  
SYSTEMS®