

**Product Name:** PD 150606

**Catalog No.:** 1269

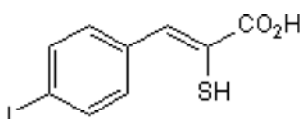
**Batch No.:** 2

CAS Number: 179528-45-1

IUPAC Name: (Z)-3-(4-Iodophenyl)-2-mercapto-2-propenoic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>9</sub>H<sub>7</sub>IO<sub>2</sub>S  
**Batch Molecular Weight:** 306.12  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.1 (Dichloromethane:Methanol [85:15])  
**HPLC:** Shows 99.4% purity  
<sup>1</sup>H NMR: Consistent with structure  
 Mass Spectrum: Consistent with structure  
 Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	35.31	2.3	
Found	35.28	2.33	0.1

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956

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IUPAC Name: (Z)-3-(4-Iodophenyl)-2-mercapto-2-propenoic acid

**Description:**

Selective, cell-permeable non-peptide calpain inhibitor ( $K_i$  values for v and m-calpains are 0.21 and 0.37  $\mu$ M respectively). Targets the calcium binding sites of calpain. Demonstrates high specificity for calpains relative to other proteases, and is a non-competitive inhibitor with respect to the substrate.

**Physical and Chemical Properties:**

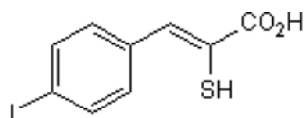
Batch Molecular Formula:  $C_9H_7IO_2S$

Batch Molecular Weight: 306.12

Physical Appearance: Yellow solid

**Minimum Purity:** >95%

**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 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:**

**Squier *et al*** (1999) Calpain and calpastatin regulate neutrophil apoptosis. *J.Cell Physiol.* **178** 311. PMID: 9989777.

**Waters *et al*** (1997) Calpains mediate calcium chloride influx during the late phase of cell injury. *J.Pharmacol.Exp.Ther.* **283** 1177. PMID: 9399991.

**Wang *et al*** (1996) An alpha-mercaptoacrylic acid derivative is a selective nonpeptide cell-permeable calpain inhibitor and is neuroprotective. *Proc.Natl.Acad.Sci.U.S.A.* **93** 6687. PMID: 8692879.

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