

Product Name: PD 150606

Catalog No.: 1269

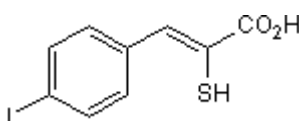
Batch No.: 1

CAS Number: 179528-45-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₇IO₂S
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_f = 0.1 (Dichloromethane:Methanol [85:15])
HPLC: Shows 95.6% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	35.31	2.3	
Found	35.25	2.24	0.05

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

Product Name: PD 150606

Catalog No.: 1269

Batch No.: 1

CAS Number: 179528-45-1

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

Description:

Selective, cell-permeable non-peptide calpain inhibitor (K_i values for ν and m -calpains are 0.21 and 0.37 μ 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:

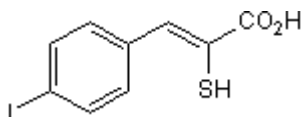
Batch Molecular Formula: C₉H₇IO₂S

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:

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.

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

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

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

R&D
SYSTEMS®