

Product Name: SID 26681509

Catalog No.: 3625

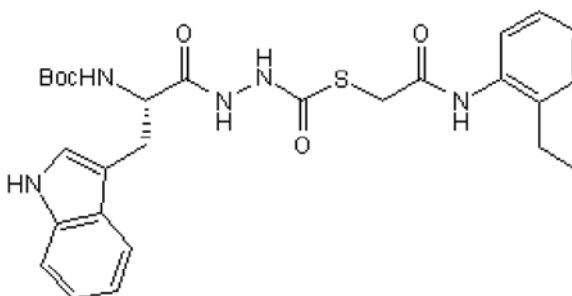
Batch No.: 4

CAS Number: 958772-66-2

IUPAC Name: *N*-[(1,1-Dimethylethoxy)carbonyl]-L-tryptophan-2-[[[2-[(2-ethylphenyl)amino]-2-oxoethyl]thio]carbonyl]hydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₃N₅O₅S
Batch Molecular Weight: 539.65
Physical Appearance: White solid
Solubility: DMSO to 50 mM
ethanol to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -17 (Concentration = 0.5, Solvent = Acetic Acid)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.09	6.16	12.98
Found	59.6	6.14	12.82

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

Product Name: SID 26681509

Catalog No.: 3625

4

CAS Number: 958772-66-2

IUPAC Name: *N*-[(1,1-Dimethylethoxy)carbonyl]-L-tryptophan-2-[[[2-[(2-ethylphenyl)amino]-2-oxoethyl]thio]carbonyl]hydrazide

Description:

SID 26681509 is a potent and reversible human cathepsin L inhibitor (IC_{50} = 56 nM). Displays no inhibitory activity at cathepsin G. Antimalarial; inhibits leishmaniasis.

Physical and Chemical Properties:

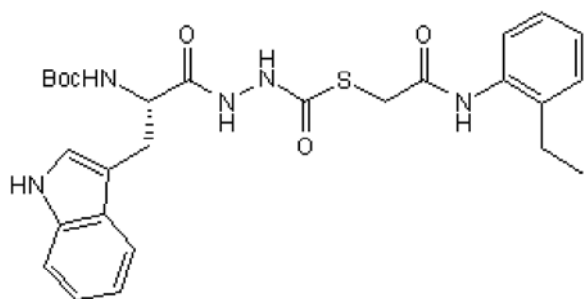
Batch Molecular Formula: $C_{27}H_{33}N_5O_5S$

Batch Molecular Weight: 539.65

Physical Appearance: White solid

Minimum Purity: $\geq 97\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 10 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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Myers et al (2008) Identification and synthesis of a unique thiocarbazate cathepsin L inhibitor. *Bioorg.Med.Chem.Lett.* **18** 210. PMID: 18060772.

Shah et al (2008) Kinetic characterization and molecular docking of a novel, potent and selective slow-binding inhibitor of human cathepsin L. *Mol.Pharmacol.* **74** 34. PMID: 18403718.

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