



LKT Laboratories, Inc.

Torsemide

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## Product Information

**Product ID** T5968

**CAS No.** 56211-40-6

**Chemical Name** N-[(isopropylamino)carbonyl]-4-[(3-methylphenyl)amino]pyridine-3-sulfonamide

**Synonym** Torasemide

**Formula** C<sub>16</sub>H<sub>20</sub>N<sub>4</sub>O<sub>3</sub>S

**Formula Wt.** 348.42

**Melting Point**

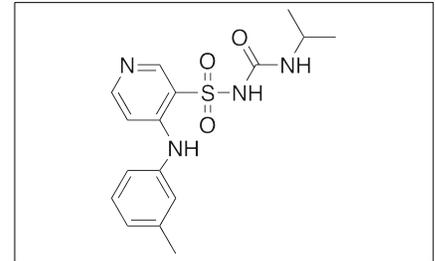
**Purity** ≥98%

**Solubility** DMSO 18 mg/mL  
Water Insoluble  
Ethanol Insoluble

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Torsemide is a pyridine-sulfonyl urea loop diuretic known for its antihypertensive and cardioprotective activities. This compound acts as a competitive inhibitor of the Na<sup>+</sup>-K<sup>+</sup>-2Cl<sup>-</sup> symporter in the loop of Henle by binding directly to the Cl<sup>-</sup> binding site; this inhibition prevents reabsorption of Na<sup>+</sup>, Cl<sup>-</sup>, Mg<sup>2+</sup>, and Ca<sup>2+</sup>, resulting in a decrease in blood volume and pressure. Torsemide treats edema, hypertension, and congestive heart failure, attenuating left ventricular cardiac remodeling. This compound also inhibits aldosterone secretion and ATPase activity of HSP90.



**Bulk quantities available upon request**

Product ID	Size
T5968	100 mg
T5968	250 mg
T5968	1 g

**References** Sheikha GA, Al-Sha'er MA, Taha MO. Some sulfonamide drugs inhibit ATPase activity of heat shock protein 90: investigation by docking simulation and experimental validation. *J Enzyme Inhib Med Chem.* 2011 Oct;26(5):603-9. PMID: 21190426.

Kasama S, Toyama T, Hatori T, et al. Effects of torasemide on cardiac sympathetic nerve activity and left ventricular remodeling in patients with congestive heart failure. *Heart.* 2006 Oct;92(10):1434-40. PMID: 16621879.

Goodfriend TL, Ball DL, Oelkers W, et al. Torsemide inhibits aldosterone secretion in vitro. *Life Sci.* 1998;63(3):PL45-50. PMID: 9698054.

Lupinacci L, Puschett JB. An examination of the site and mechanism of action of torasemide in man. *J Clin Pharmacol.* 1988 May;28(5):441-7. PMID: 3392242.

Recasens M, Pin JP, Bockaert J. Chloride transport blockers inhibit the chloride-dependent glutamate binding to rat brain membranes. *Neurosci Lett.* 1987 Feb 24;74(2):211-6. PMID: 2883610.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.