



LKT Laboratories, Inc.

**BVT-2733**

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## Product Information

**Product ID** B8676

**CAS No.** 376640-41-4

**Chemical Name** 3-Chloro-2-methyl-N-{4-[2-(4-methyl-1-piperazinyl)-2-oxoethyl]-1,3-thiazol-2-yl}benzenesulfonamide

**Synonym** BVT2733

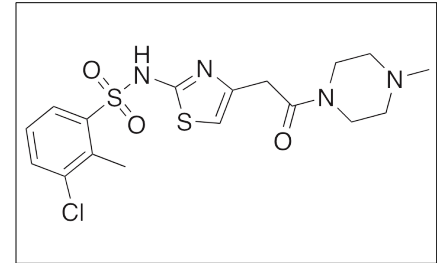
**Formula** C<sub>17</sub>H<sub>21</sub>ClN<sub>4</sub>O<sub>3</sub>S<sub>2</sub>

**Formula Wt.** 428.96

**Melting Point**

**Purity** ≥98%

**Solubility** 40mg/ml in DMSO



**Bulk quantities available upon request**

Product ID	Size
B8676	5 mg
B8676	25 mg

**Store Temp** -20° C

**Ship Temp** Ambient

**Description** BVT-2733 is an inhibitor of 11β-hydroxysteroid dehydrogenase 1 (11β-HSD1) that exhibits anti-diabetic, anti-inflammatory, and anti-osteoporotic properties. BVT-2733 decreases blood glucose and serum insulin levels in animal models of hyperglycemia. BVT-2733 also attenuates arthritis severity, decreases pro-inflammatory cytokine production, and suppresses synovial inflammation. In other animal models, this compound prevents 11βHSD-induced osteogenic differentiation and suppression of osteogenesis.

**References** Zhang L, Dong Y, Zou F, et al. 11β-Hydroxysteroid dehydrogenase 1 inhibition attenuates collagen-induced arthritis. *Int Immunopharmacol.* 2013 Nov;17(3):489-94. PMID: 23938253.

Wu L, Qi H, Zhong Y, et al. 11β-Hydroxysteroid dehydrogenase type 1 selective inhibitor BVT.2733 protects osteoblasts against endogenous glucocorticoid induced dysfunction. *Endocr J.* 2013;60(9):1047-58. PMID: 23759754.

Alberts P, Engblom L, Edling N, et al. Selective inhibition of 11β-hydroxysteroid dehydrogenase type 1 decreases blood glucose concentrations in hyperglycaemic mice. *Diabetologia.* 2002 Nov;45(11):1528-32. PMID: 12436336.

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