



# LKT Laboratories, Inc.

## Mitiglinide Calcium

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### Product Information

**Product ID** M3577

**CAS No.** 145525-41-3

**Chemical Name** calcium;(2S)-4-[(3aS,7aR)-1,3,3a,4,5,6,7,7a-octahydroisindol-2-yl]-2-benzyl-4-oxobutanoate

**Synonym** Kad-1229

**Formula**  $2(C_{19}H_{24}NO_3)Ca$

**Formula Wt.** 668.88

**Melting Point**

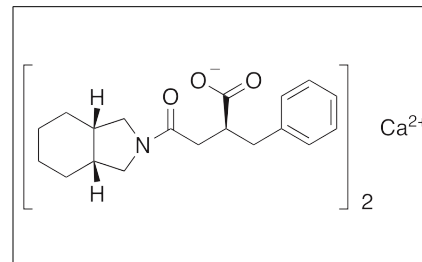
**Purity**  $\geq 98\%$

**Solubility**

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Mitiglinide is an anti-diabetic/anti-hyperglycemic compound that increases insulin secretion and decreases plasma glucose in pancreatic  $\beta$  cells. The short action of mitiglinide mimics the in vivo duration and timing of insulin release. Mitiglinide decreases levels of FGF-21, altering glucose metabolism. Mitiglinide directly inhibits ATP-sensitive  $K^+$  channels and may also activate ryanodine (RyR) receptors, altering intracellular  $Ca^{2+}$  release.



### Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size   | List Price |
|------------|--------|------------|
| M3577      | 100 mg | \$171.10   |
| M3577      | 250 mg | \$314.90   |
| M3577      | 1 g    | \$1004.00  |

**References** Phillippe HM, Wargo KA. Mitiglinide for type 2 diabetes treatment. Expert Opin Pharmacother. 2013 Oct;14(15):2133-44. PMID: 23992284.

Wang B, Yang G, Yang M, et al. Mitiglinide treatment may decrease plasma fibroblast growth factor-21 levels in individuals with new-onset T2DM. Cytokine. 2012 Feb;57(2):300-3. PMID: 22129626.

Phillippe HM, Wargo KA. Mitiglinide: a novel agent for the treatment of type 2 diabetes mellitus. Ann Pharmacother. 2010 Oct;44(10):1615-23. PMID: 20841518.

Shigeto M, Katsura M, Matsuda M, et al. Nateglinide and mitiglinide, but not sulfonylureas, induce insulin secretion through a mechanism mediated by calcium release from endoplasmic reticulum. J Pharmacol Exp Ther. 2007 Jul;322(1):1-7. PMID: 17409272.

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