



# LKT Laboratories, Inc.

## Methyldopa Sesquihydrate

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### Product Information

**Product ID** M1779

**CAS No.** 41372-08-1

**Chemical Name** 3-Hydroxy- $\alpha$ -methyl-L-tyrosine sesquihydrate

**Synonym** Methyl-L-DOPA, MK-351, Hyperax

**Formula** C<sub>10</sub>H<sub>13</sub>NO<sub>4</sub> • 3/2H<sub>2</sub>O

**Formula Wt.** 238.24

**Melting Point** >300°C (dec.)

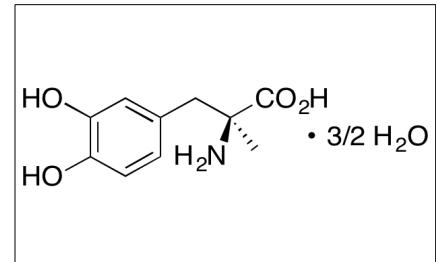
**Purity** ≥98%

**Solubility** Soluble in dilute mineral acids and water (10mg/mL, pH 5.0). Insoluble in organic solvents.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Methyldopa exhibits antihypertensive and sedative activities. In circulation, methyldopa is metabolized to  $\alpha$ -methylnorepinephrine by dopamine  $\beta$ -hydroxylase, which activates  $\alpha$ 2-adrenergic receptors, acting as a sympatholytic and inhibiting the sympathetic nervous system. This compound also inhibits DOPA decarboxylase, decreasing production of dopamine, norepinephrine, and epinephrine. In animal models, methyldopa exhibits NO-dependent sedative activity similar to that of clonidine.



**Bulk quantities available upon request**

Product ID	Size
M1779	1 g
M1779	5 g
M1779	10 g

**References** Sucak A, Kanat-Pektas M, Gungor T, et al. Leptin levels and antihypertensive treatment in preeclampsia. Singapore Med J. 2010 Jan;51(1):39-43. PMID: 20200774.

Soares de Moura R, Rios AA, et al. The effects of nitric oxide synthase inhibitors on the sedative effect of clonidine. Anesth Analg. 2001 Nov;93(5):1217-21. PMID: 11682401.

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