



# LKT Laboratories, Inc.

## Rivastigmine Tartrate

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### Product Information

**Product ID** R3586

**CAS No.** 129101-54-8

**Chemical Name** (2R,3R)-2,3-dihydroxybutanedioic acid;[3-[(1S)-1-(dimethylamino)ethyl]phenyl] N-ethyl-N-methylcarbamate

**Synonym**

**Formula** C<sub>14</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub> · C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>

**Formula Wt.** 400.43

**Melting Point** 123-125 °C

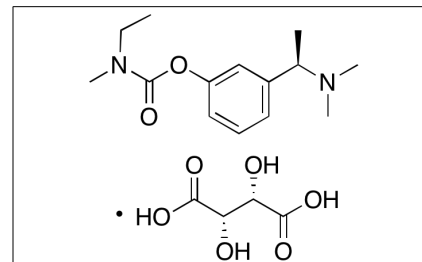
**Purity** ≥99%

**Solubility**

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Rivastigmine is an inhibitor of acetylcholinesterase (AChE) and butylcholinesterase (BChE) that is used clinically to treat dementia. Rivastigmine exhibits anti-cholinergic, anti-inflammatory, cognition enhancing and neuroprotective activities. In vivo, rivastigmine improves memory impairment in a CaMKII-dependent manner. Rivastigmine also decreases production of IL-1β in vivo. In vitro, this compound displays benefit against Alzheimer's disease, increasing secretion of amyloid-β (Aβ) precursor protein (APP) and decreasing secretion of Aβ through modulation of α-secretase signaling.



**Bulk quantities available upon request**

Product ID	Size
R3586	25 mg
R3586	100 mg
R3586	250 mg
R3586	1 g

**References** Moriguchi S, Tagashira H, Sasaki Y, et al. CaMKII activity is essential for improvement of memory-related behaviors by chronic rivastigmine treatment. *J Neurochem*. 2013 Oct 28. [Epub ahead of print]. PMID: 24164423.

Bailey JA, Ray B, Greig NH, et al. Rivastigmine lowers Aβ and increases sAPPα levels, which parallel elevated synaptic markers and metabolic activity in degenerating primary rat neurons. *PLoS One*. 2011;6(7):e21954. PMID: 21799757.

Pollak Y, Gilboa A, Ben-Menachem O, et al. Acetylcholinesterase inhibitors reduce brain and blood interleukin-1β production. *Ann Neurol*. 2005 May;57(5):741-5. PMID: 15852394.

Krall WJ, Sramek JJ, Cutler NR. Cholinesterase inhibitors: a therapeutic strategy for Alzheimer disease. *Ann Pharmacother*. 1999 Apr;33(4):441-50. PMID: 10332536.

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