



LKT Laboratories, Inc.

Masitinib

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lctlabs.com](mailto:getinfo@lctlabs.com)  
Web: [lctlabs.com](http://lctlabs.com)

## Product Information

**Product ID** M0374

**CAS No.** 790299-79-5

**Chemical Name** 4-[(4-methylpiperazin-1-yl)methyl]-N-[4-methyl-3-[(4-pyridin-3-yl-1,3-thiazol-2-yl)amino]phenyl]benzamide

**Synonym** AB1010; Masatinib; Masitinib (AB1010); Masivet

**Formula** C<sub>28</sub>H<sub>30</sub>N<sub>6</sub>OS

**Formula Wt.** 498.64

**Melting Point**

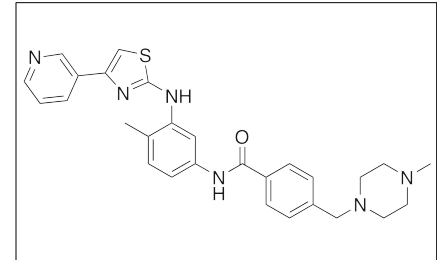
**Purity** ≥98%

**Solubility**

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Masitinib is an anticancer chemotherapeutic and anti-inflammatory compound used in veterinary medicine. Masitinib inhibits c-Kit and PDGFR, increasing survival time in the treatment of mast cell tumors and other cancers. In vitro, masitinib increases levels of caspases 3 and 7, inducing apoptosis. Masitinib also decreases airway inflammation and edema in feline allergic asthma models and also decreases the patient-rated severity of multiple sclerosis in clinical settings. Masitinib also exhibits potential efficacy against Alzheimer's disease when given as an adjunct therapy, slowing cognitive decline.



**Bulk quantities available upon request**

Product ID	Size
M0374	5 mg
M0374	25 mg
M0374	100 mg

**References** Smrkovski OA, Essick L, Rohrbach BW, et al. Masitinib mesylate for metastatic and non-resectable canine cutaneous mast cell tumours. *Vet Comp Oncol.* 2013 Jul 12. [Epub ahead of print]. PMID: 23845124.

Fahey CE, Milner RJ, Kow K, et al. Apoptotic effects of the tyrosine kinase inhibitor, masitinib mesylate, on canine osteosarcoma cells. *Anticancer Drugs.* 2013 Jun;24(5):519-26. PMID: 23466652.

Vermersch P, Benrabah R, Schmidt N, et al. Masitinib treatment in patients with progressive multiple sclerosis: a randomized pilot study. *BMC Neurol.* 2012 Jun 12;12:36. PMID: 22691628.

Lee-Fowler TM, Guntur V, Dodam J, et al. The tyrosine kinase inhibitor masitinib blunts airway inflammation and improves associated lung mechanics in a feline model of chronic allergic asthma. *Int Arch Allergy Immunol.* 2012;158(4):369-74. PMID: 22487554.

Cadot P, Hensel P, Bensignor E, et al. Masitinib decreases signs of canine atopic dermatitis: a multicentre, randomized, double-blind, placebo-controlled phase 3 trial. *Vet Dermatol.* 2011 Dec;22(6):554-64. PMID: 21668810.

Piette F, Belmin J, Vincent H, et al. Masitinib as an adjunct therapy for mild-to-moderate Alzheimer's disease: a randomised, placebo-controlled phase 2 trial. *Alzheimers Res Ther.* 2011 Apr 19;3(2):16. PMID: 21504563.

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