



LKT Laboratories, Inc.

## Gabexate Mesylate

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

### Product Information

Product ID G0104

CAS No. 56974-61-9

#### Chemical Name

**Synonym** 4-[[6-[(aminoiminomethyl) amino]-1-oxohexyl]oxy]benzoic acid ethyl ester mesylate salt

**Formula** C<sub>16</sub>H<sub>24</sub>N<sub>3</sub>O<sub>4</sub> · CH<sub>3</sub>O<sub>3</sub>S

**Formula Wt.** 417.48

**Melting Point** 90-93°C

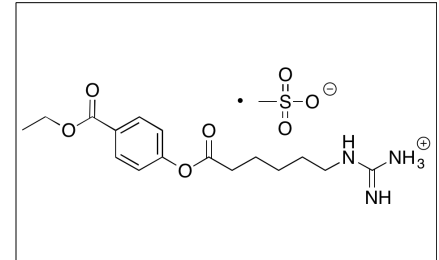
**Purity** ≥98%

**Solubility**

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Gabexate displays anticancer chemotherapeutic, anti-angiogenic, anti-inflammatory, and antiviral activities. In vitro, gabexate inhibits the activation of NF-κB, ERK1/2, and Akt, downregulates the production of matrix metalloproteinases 2 and 9, VEGF, and IL-8, and increases expression of protein and phosphatase and tensin homolog (PTEN). Gabexate acts as a proteasome inhibitor, inhibiting activity of tumor-associated trypsinogen and urokinase-type plasminogen activator and decreasing the invasiveness of pancreatic cancer cells. Additionally, gabexate inhibits production of TNF-α, preventing activation of MAPK signaling cascades in vitro. This compound also exhibits antiviral activity against the influenza virus, inhibiting cleavage of hemagglutinin.



**Bulk quantities available upon request**

Product ID	Size
G0104	10 mg
G0104	100 mg
G0104	250 mg

**References** Brandi G, Tavolari S, Guarnieri T, et al. Antiprotease strategy in pancreatic cancer treatment: emergence from a preclinical study. *Pancreas*. 2014 Jan;43(1):53-63. PMID: 24201777.

Hsieh HP, Hsu JT. Strategies of development of antiviral agents directed against influenza virus replication. *Curr Pharm Des*. 2007;13(34):3531-42. PMID: 18220789.

Uchima Y, Sawada T, Nishihara T, et al. Inhibition and mechanism of action of a protease inhibitor in human pancreatic cancer cells. *Pancreas*. 2004 Aug;29(2):123-31. PMID: 15257104.

Yuksel M, Okajima K, Uchiba M, et al. Gabexate mesilate, a synthetic protease inhibitor, inhibits lipopolysaccharide-induced tumor necrosis factor-alpha production by inhibiting activation of both nuclear factor-kappaB and activator protein-1 in human monocytes. *J Pharmacol Exp Ther*. 2003 Apr;305(1):298-305. PMID: 12649382.

Aosasa S, Ono S, Mochizuki H, et al. Mechanism of the inhibitory effect of protease inhibitor on tumor necrosis factor alpha production of monocytes. *Shock*. 2001 Feb;15(2):101-5. PMID: 11220636.

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