

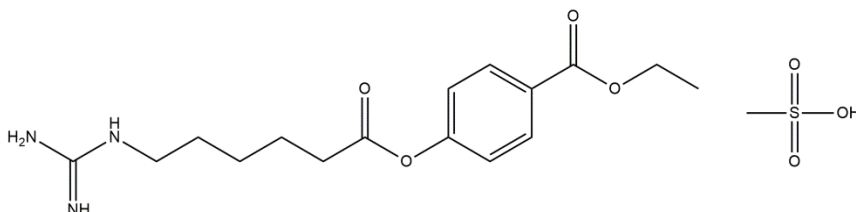
# Gabexate mesylate

07/20

**ALTERNATE NAMES:** FOY; Megacart; ethyl 4-[6-(diaminomethylideneamino)hexanoyloxy]benzoate; methanesulfonic acid; 4-[[6-[(aminoiminomethyl)amino]-1-oxohexyl]oxy]benzoic acid ethyl ester mesylate; [Ethyl p-(6-guanidinohexanoyloxy) benzoate]methanesulfonate

**CATALOG #:** B3058-50 50 mg  
B3058-250 250 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>17</sub>H<sub>27</sub>N<sub>3</sub>O<sub>7</sub>S

**MOLECULAR WEIGHT:** 417.48

**CAS NUMBER:** 56974-61-9

**APPEARANCE:** White solid

**PURITY:** ≥97%

**SOLUBILITY:** ~25 mg/ml in DMSO and DMF

**DESCRIPTION:** Gabexate is an inhibitor of serine proteases. It inhibits plasma kallikrein, thrombin, plasmin, factor Xa with K<sub>i</sub> values of 0.2 μM, 0.97 μM, 1.6 μM and 8.5 μM. It exerts an anticoagulant effect on the clotting activity of thrombin. It inhibits LPS-induced TNF-α production in monocytes by inhibiting activation of both NF-κB and activator protein-1. It slightly inhibits SARS-CoV-2 S-driven host cell entry in lung cells.

**STORAGE TEMPERATURE:** -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCES:**

1. Yuksel, M., Okajima, K., Uchiba, M., et al. Gabexate mesilate, a synthetic protease inhibitor, inhibits lipopolysaccharide-induced tumor necrosis factor-α production by inhibiting activation of both nuclear factor-κB and activator protein-1 in human monocytes. *J. Pharmacol. Exp. Ther.* 305(1), 298-305 (2003).
2. Ohno, H., Kosaki, G., Kambayashi, J., et al. FOY: [ethyl P-(6-guanidinohexanoyloxy) benzoate] methanesulfonate as a serine proteinase inhibitor. I. Inhibition of thrombin and factor Xa in vitro. *Thromb. Res.* 19(4-5), 579-588 (1980).
3. Hoffmann, M., Schroeder, S., Kleine-Weber, H., et al. Nafamostat Mesylate Blocks Activation of SARS-CoV-2: New Treatment Option for COVID-19. *Antimicrobial Agents and Chemotherapy.* 64, 6; e00754-20, (2020).

**RELATED PRODUCTS:**

Nafamostat Mesylate (Cat. No. 1760)  
Camostat mesylate (Cat. No. B2145)  
Dexamethasone (Cat. No. 1042)  
E-64d (Cat. No. B3057)  
PMSF (Cat. No. 1548)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*