

# Gabexate (mesylate)

Catalog No: tcsc2457



## Available Sizes

**Size:** 10mg

**Size:** 100mg



## Specifications

**CAS No:**

56974-61-9

**Formula:**

$C_{17}H_{27}N_3O_7S$

**Pathway:**

Metabolic Enzyme/Protease;Metabolic Enzyme/Protease

**Target:**

Proteasome;Factor Xa

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O : ≥ 250 mg/mL (598.83 mM)

**Alternative Names:**

FOY

**Observed Molecular Weight:**

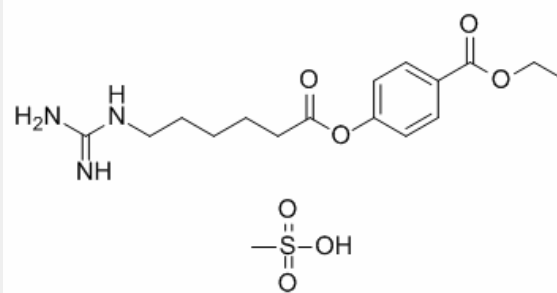
417.48

## Product Description

Gabexate Mesylate is a Factor X inhibitor; serine protease inhibitor .

Target: Factor X

Gabexate mesylate is a non-antigenic synthetic inhibitor of trypsin-like serine proteinases that is therapeutically used in the treatment of pancreatitis and disseminated intravascular coagulation and as a regional anticoagulant for hemodialysis. Values of the inhibition constant ( $K(i)$ ) for gabexate mesylate binding to human and bovine trypsin were  $3.4 \times 10^{-9}$  M and  $1.8 \times 10^{-7}$  M (at pH 7.4 and 37.0 degrees ), respectively. Gabexate mesylate inhibited the fibrinogenolytic activity of human trypsin [1]. Gabexate Mesylate decreased the TNF $\alpha$  production of LPS-stimulated monocytes as shown by the inhibition of mRNA expression and increased the IL-10 production of LPS-stimulated monocytes. Gabexate Mesylate also suppressed the NF $\kappa$ B activity of LPS-stimulated monocytes. Inhibitory effect of Gabexate Mesylate on the TNF $\alpha$  production of activated human monocytes is mediated by the suppression of NF $\kappa$ B activation [2]. Gabexate mesylate inhibits competitively constitutive and inducible NO synthase (cNOS and iNOS, respectively), with  $K$  values of  $1.0 \times 10^{-4}$  M and  $5.0 \times 10^{-3}$  M, respectively, at pH 7.4 and 37.0°C. gabexate mesylate increases iNOS mRNA expression in rat C6 glioma cells, as induced by E. coli lipopolysaccharide plus interferon- $\gamma$ . Gabexate mesylate inhibits dose-dependently nitrite production (i.e. NO release) in rat C6 glioma cells, as induced by E. coli lipopolysaccharide plus interferon- $\gamma$  [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!