Gabexate mesylate

**Cat. No.:** HY-B0385  
**CAS No.:** 56974-61-9  
**Molecular Formula:** C₁₇H₂₇N₃O₇S  
**Molecular Weight:** 417.48  
**Target:** Factor Xa; Proteasome  
**Pathway:** Metabolic Enzyme/Protease  
**Storage:**  
- Powder: -20°C for 3 years, 4°C for 2 years  
- In solvent: -80°C for 6 months, -20°C for 1 month

**SOLVENT & SOLUBILITY**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass (mg)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂O</td>
<td>≥ 250 mg/mL (598.83 mM)</td>
<td></td>
</tr>
</tbody>
</table>

* “≥” means soluble, but saturation unknown.*

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.3953 mL</td>
<td>11.9766 mL</td>
<td>23.9532 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4791 mL</td>
<td>2.3953 mL</td>
<td>4.7906 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2395 mL</td>
<td>1.1977 mL</td>
<td>2.3953 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

**BIOLOGICAL ACTIVITY**

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 trypptase were 3.4 x 10(-9) M and 1.8 x 10(-7) M (at pH 7.4 and 37.0 degrees), respectively. Gabrixeate mesylate inhibited the fibrinogenolytic activity of human trypptase [1]. Gabexate Mesylate decreased the TNFalpha 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 NFkappaB activity of LPS-stimulated monocytes. Inhibitory effect of Gabexate Mesylate on the TNFalpha production of activated human monocytes is mediated by the suppression of NFkappaB activation [2]. Gabexate mesylate inhibits competitively constitutive and inducible NO synthase (cNOS and iNOS, respectively), with K(i) values of 1.0 x 10⁴M and 5.0 x 10³M, respectively, at pH 7.4 and 37.0°C. Gabexate mesylate increases iNOS mRNA expression in rat C6 glioma cells, as induced by E. colilipopolysaccharide plus interferon-γ. Gabexate mesylate inhibits dose-dependently nitrite production (i.e. NO release) in rat C6 glioma cells, as induced by E.
coli lipopolysaccharide plus interferon-γ [3].

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REFERENCES

