Product Name: Nafamostat mesylate
Catalog No.: 3081
Batch No.: 5
CAS Number: 82956-11-4
IUPAC Name: 4-[(Aminoiminomethyl)amino] benzoic acid 6-(aminoiminomethyl)-2-naphthalenyl ester dimethanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES
   - Batch Molecular Formula: \(\text{C}_{19}\text{H}_{17}\text{N}_{5}\text{O}_{2}.2\text{CH}_{4}\text{O}_{3}\text{S}\)
   - Batch Molecular Weight: 539.59
   - Physical Appearance: White solid
   - Solubility: water to 100 mM, DMSO to 100 mM
   - Storage: Desiccate at +4°C

2. ANALYTICAL DATA
   - HPLC: Shows 99.8% purity
   - \(^1\text{H} \text{NMR:}\) Consistent with structure
   - Mass Spectrum: Consistent with structure
   - Microanalysis:
     - Theoretical: Carbon 46.74, Hydrogen 4.67, Nitrogen 12.98
     - Found: Carbon 46.79, Hydrogen 4.68, Nitrogen 12.98

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:
Broad spectrum serine protease inhibitor. Displays selectivity for human tryptase when used at relatively low concentrations. Reduces eosinophil infiltration, mast cell activation and airway responsiveness in a murine model of asthma.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₉H₁₇N₆O₆.2CH₃O₂S
Batch Molecular Weight: 539.59
Physical Appearance: White solid
Minimum Purity: >99%

Batch Molecular Structure:

Storage: Desiccate at +4°C

Solubility & Usage Info:
water to 100 mM
DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: