

Product Name: AEBSF

Catalog No.: 5175

Batch No.: 1

CAS Number: 30827-99-7

IUPAC Name: 4-(2-Aminoethyl)benzenesulfonyl fluoride hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_8H_{10}FNO_2S.HCl. \frac{1}{4}H_2O$

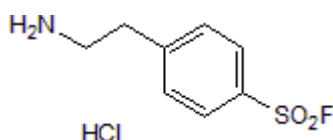
Batch Molecular Weight: 244.19

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	39.35	4.75	5.74
Found	39.66	4.52	5.91

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®

Product Name: AEBSF

Catalog No.: 5175

Batch No.: 1

CAS Number: 30827-99-7

IUPAC Name: 4-(2-Aminoethyl)benzenesulfonyl fluoride hydrochloride

Description:

Broad spectrum, irreversible inhibitor of serine proteases. Also inhibits NADPH oxidase activation in vitro. Attenuates airway inflammation in a mouse model of airway allergy.

Physical and Chemical Properties:

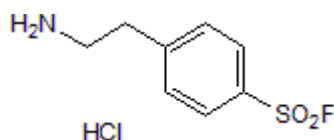
Batch Molecular Formula: $C_8H_{10}FNO_2S \cdot HCl \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 244.19

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°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:

Diatchuk et al (1997) Inhibition of NADPH oxidase activation by 4-(2-aminoethyl)-benzenesulfonyl fluoride and related compounds. *J.Biol.Chem.* **272** 13292. PMID: 9148950.

Saw et al (2012) Serine protease inhibitor attenuates ovalbumin induced inflammation in mouse model of allergic airway disease. *PLoS ONE* **7** e41107. PMID: 22829914.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®