

**Product Name:** EG 00229 trifluoroacetate

**Catalog No.:** 6986

**Batch No.:** 2

CAS Number: 1210945-69-9

IUPAC Name: *N*<sup>2</sup>-[[3-[(2,1,3-Benzothiadiazol-4-ylsulfonyl)amino]-2-thienyl]carbonyl]-L-arginine trifluoroacetate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

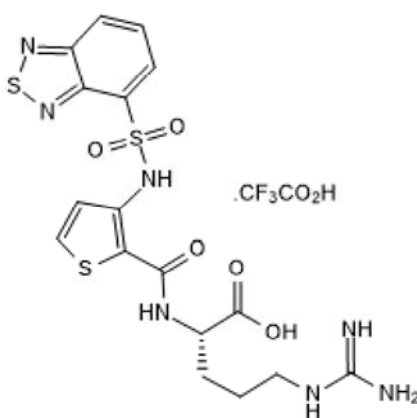
**Batch Molecular Formula:** C<sub>17</sub>H<sub>19</sub>N<sub>7</sub>O<sub>5</sub>S<sub>3</sub>.CF<sub>3</sub>CO<sub>2</sub>H

**Batch Molecular Weight:** 611.59

**Physical Appearance:** Pale yellow solid

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.0% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = +112 (Concentration = 1, Solvent = 0.2M NaOH)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	37.31	3.3	16.03
Found	37.97	3.51	16.55

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**Description:**

EG 00229 trifluoroacetate is a neuropilin 1 (NRP1) antagonist; inhibits VEGFA binding to the NRP1 b1 CendR binding pocket. Has no effect on VEGFA binding to VEGFR-1 and VEGFR-2. Reduces VEGFA-induced VEGFR-2 tyrosine phosphorylation in HUVECs. Also attenuates VEGFA-induced HUVEC cell migration and reduces A549 lung carcinoma cell viability in vitro. Inhibits binding of CendR motif in S1 protein of SARS-CoV-2 to NRP1, and reduces efficiency of SARS-CoV-2 infection in Caco-2 cells.

**Physical and Chemical Properties:**

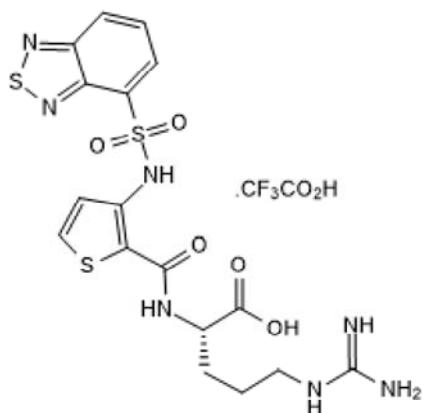
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Batch Molecular Weight: 611.59

Physical Appearance: Pale yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Daly et al** (2020) Neuropilin-1 is a host factor for SARS-CoV-2 infection. *Science* **370** 861. PMID: 33082294.

**Jarvis et al** (2010) Small molecule inhibitors of the neuropilin-1 vascular endothelial growth factor A (VEGF-A) interaction. *J.Med.Chem.* **53** 2215. PMID: 20151671 .

**Storage:** Store at -20°C

**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.

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