

**Product Name:** sBADA

**Catalog No.:** 6659

**Batch No.:** 1

**IUPAC Name:** Sodium (*R*)-3-(3-((2-amino-2-carboxyethyl)amino)-3-oxopropyl)-5,5-difluoro-7,9-dimethyl-2-sulfonato-5*H*-dipyrrolo [1,2-*c*:2',1'-*f*][1,3,2]diazaborinin-4-ium-5-uide trifluoroacetate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>20</sub>BF<sub>2</sub>N<sub>4</sub>O<sub>6</sub>S.Na.C<sub>2</sub>HF<sub>3</sub>O<sub>2</sub>

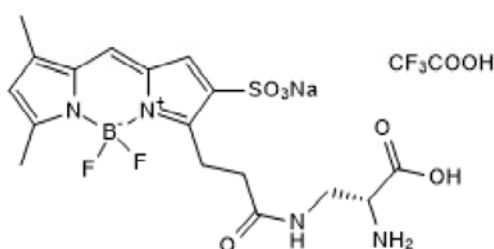
**Batch Molecular Weight:** 594.25

**Physical Appearance:** Orange solid

**Solubility:** DMSO to 2 mg/ml

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 96.2% purity

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

**Mass Spectrum:** Consistent with structure

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

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**Description:**

Green sulfonated BODIPY-FL 3-amino-D-alanine (sBADA) or fluorescent D-amino acid (FFDA). Labels peptidoglycans in live bacteria. Sulfonated from of BADA with increased hydrophilicity. Excitation/emission  $\lambda$  ~490/510 nm.

**Physical and Chemical Properties:**

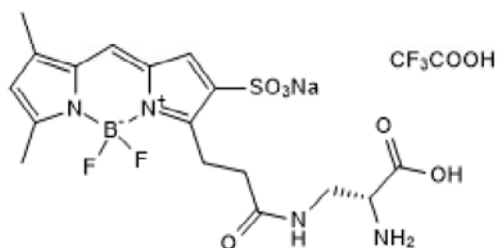
Batch Molecular Formula: C<sub>17</sub>H<sub>20</sub>BF<sub>2</sub>N<sub>4</sub>O<sub>6</sub>S.Na.C<sub>2</sub>HF<sub>3</sub>O<sub>2</sub>

Batch Molecular Weight: 594.25

Physical Appearance: Orange solid

**Minimum Purity:** >95%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 2 mg/ml

**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:**

Hsu *et al* (2017) Full color palette of fluorescent d-amino acids for in situ labeling of bacterial cell walls. *Chem.Sci.* **8** 6313. PMID: 28989665.

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