

Product Name: sBADA

Catalog No.: 7860

Batch No.: 1

CAS Number: 2376838-11-6

IUPAC Name: (R)-2-Amino-3-(3-(5,5-difluoro-7,9-dimethyl-2-sulfo-5H-4λ⁴,5λ⁴-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-3-yl)propanamido)propanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₁BF₂N₄O₆S

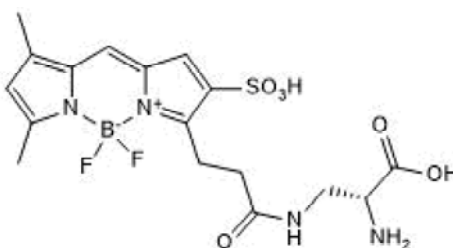
Batch Molecular Weight: 458.24

Physical Appearance: Brown solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.8% purity at 491 nm

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 490 nm (PBS pH 7)

λ_{ex}: 491 nm (PBS pH 7)

λ_{em}: 504 nm (PBS pH 7)

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

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Description:

sBADA is a green sulfonated BODIPY-FL 3-amino-D-alanine (sBADA) or fluorescent D-amino acid (FFDA). Labels peptidoglycans in live bacteria. Sulfonated form of BADA with increased hydrophilicity and thermostability. Excitation/emission λ ~490/510 nm.

Physical and Chemical Properties:

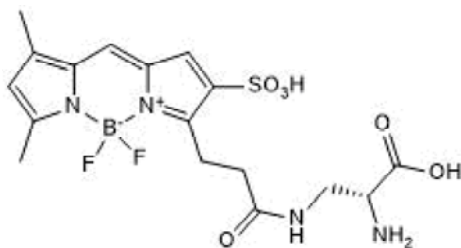
Batch Molecular Formula: C₁₇H₂₁BF₂N₄O₆S

Batch Molecular Weight: 458.24

Physical Appearance: Brown solid

Minimum Purity: ≥95%

Batch Molecular Structure:



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.

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 10 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.

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