bio-techne
TOCRIS

Print Date: Mar 3rd 2025

Certificate of Analysis

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Product Name: **sBADA** **Catalog No.: 7860** **Batch No.: 2**

CAS Number: 2376838-11-6

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{21}BF_2N_4O_6S$

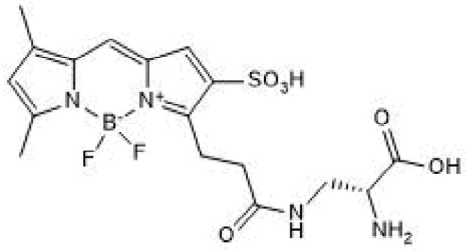
Batch Molecular Weight: 458.24

Physical Appearance: Brown solid

Solubility: DMSO to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 94.9% purity at 491 nm

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 490 nm (pbs)

λ_{ex}: 490 nm (pbs)

λ_{em}: 505 nm (pbs)

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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:

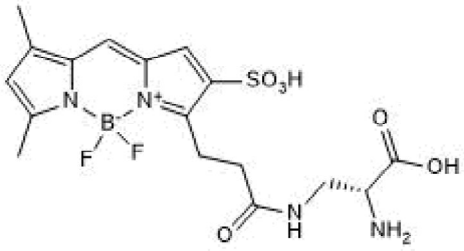
Batch Molecular Formula: $C_{17}H_{21}BF_2N_4O_6S$

Batch Molecular Weight: 458.24

Physical Appearance: Brown 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 10 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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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