

Product Name: OGDA

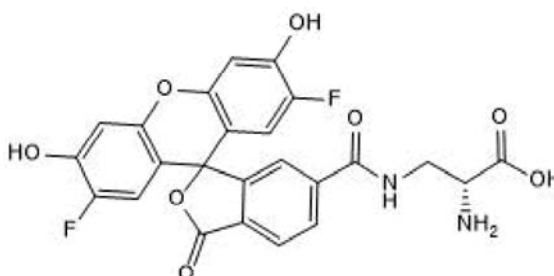
Catalog No.: 7408

Batch No.: 1

IUPAC Name: (R)-2-Amino-3-(2',7'-difluoro-3',6'-dihydroxy-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthene]-6-carboxamido)propanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₆F₂N₂O₈
Batch Molecular Weight: 498.39
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.5% purity at 210 nm
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
UV Spectrum: Consistent with structure
λ_{max}: 495 nm (0.01M PBS pH 7.4)
λ_{ex}: 493 nm (0.01M PBS pH 7.4)
λ_{em}: 515 nm (0.01M PBS pH 7.4)

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

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Description:

OGDA is a green fluorescent D-amino acid. Suitable for labeling peptidoglycans in live bacteria. OGDA is efficiently incorporated into the peptidoglycans of gram-positive and some gram-negative bacteria. Compatible with STED microscopy, OGDA labelled bacteria can be imaged by super-resolution stimulated emission depletion (STED) at a resolution below 100 nm. Photo-stable. Excitation/emission λ ~501/526 nm.

Physical and Chemical Properties:

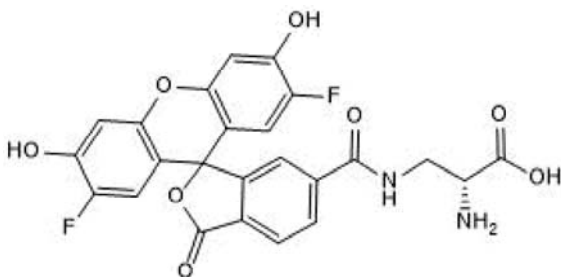
Batch Molecular Formula: C₂₄H₁₆F₂N₂O₈

Batch Molecular Weight: 498.39

Physical Appearance: Orange solid

Minimum Purity: ≥98%

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 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:

Söderström et al (2020) An OregonGreen488-labelled D-amino acid for visualizing peptidoglycan by super-resolution STED nanoscopy. *Microbiology* **166** 1129. PMID: 33237852.

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