

Product Name: dTAG-Fluorescein

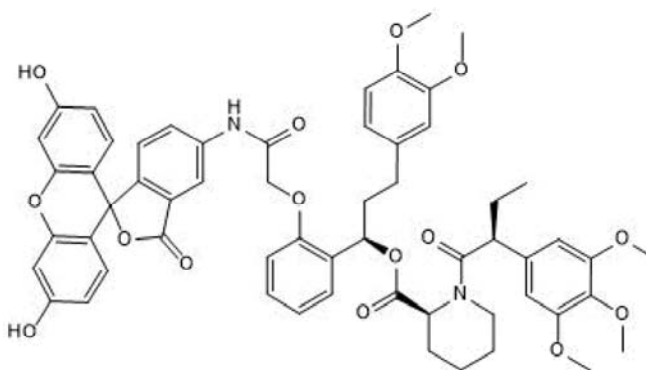
Catalog No.: 7892

Batch No.: 1

IUPAC Name: (R)-1-(2-(2-((3',6'-Dihydroxy-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthen]-5-yl)amino)-2-oxoethoxy)phenyl)-3-(3,4-dimethoxyphenyl)propyl (S)-1-((S)-2-(3,4,5-trimethoxyphenyl)butanoyl)piperidine-2-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₅₈ H ₅₈ N ₂ O ₁₅
Batch Molecular Weight:	1023.1
Physical Appearance:	Bright yellow solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 95.9% purity at 496 nm
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
UV Spectrum:	Consistent with structure
λ_{max}:	490 nm (0.01M PBS)
λ_{em}:	514 nm (0.01M PBS)

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

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Description:

dTAG-Fluorescein is a fluorescent probe for labeling FKBP12^{F36V} fusion proteins. Comprises a high-affinity ligand for FKBP12^{F36V} mutant protein (K_d in the subnanomolar range and 1,000-fold selectivity for the F36V mutant of FKBP12 over wild-type) coupled to 5-amino fluorescein. dTAG-Fluorescein can fluorescently label FKBP12^{F36V} fusion proteins expressed at different levels in a variety of cell lines.

Physical and Chemical Properties:

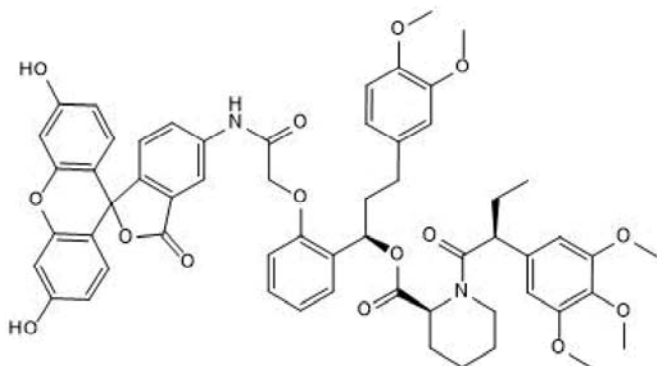
Batch Molecular Formula: C₅₈H₅₈N₂O₁₅

Batch Molecular Weight: 1023.1

Physical Appearance: Bright yellow 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 as a lyophilized solid and may 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. 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:

Nabet et al (2018) The dTAG system for immediate and target-specific protein degradation. *Nat.Chem.Biol.* **14** 431. PMID: 29581585.

Marks et al (2004) A general approach for chemical labeling and rapid, spatially controlled protein inactivation. *Proc.Natl.Acad.Sci.U.S.A.* **101** 9982. PMID: 15218100.

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