

Product Name: SAHA-FITC

Catalog No.: 7970

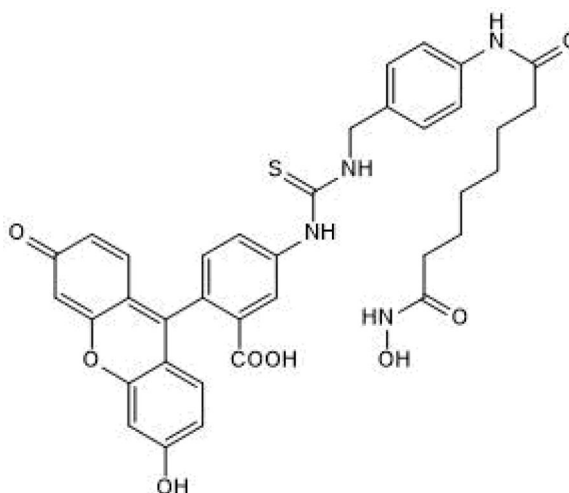
Batch No.: 1

CAS Number: 1160823-10-8

IUPAC Name: 2-(6-Hydroxy-3-oxo-3H-xanthen-9-yl)-5-(3-(4-(8-(hydroxyamino)-8-oxooctanamido)benzyl)thioureido)benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₆ H ₃₄ N ₄ O ₈ S
Batch Molecular Weight:	682.75
Physical Appearance:	Yellow solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 91.8% purity at 440 nm
¹ H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
λ _{max} :	493 nm (0.01M PBS)
λ _{ex} :	494 nm (0.01M PBS)
λ _{em} :	517 nm (0.01M PBS)

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

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Description:

SAHA-FITC is a fluorescent HDAC1/2 probe for use as a TR-FRET acceptor for CoraFluor labeling and in fluorescence polarization binding assays. Binds non-selectively to HDAC1 and HDAC2 (K_d values are 56 nM and 132 nM respectively; $K_i = 1.5$ nM).

Physical and Chemical Properties:

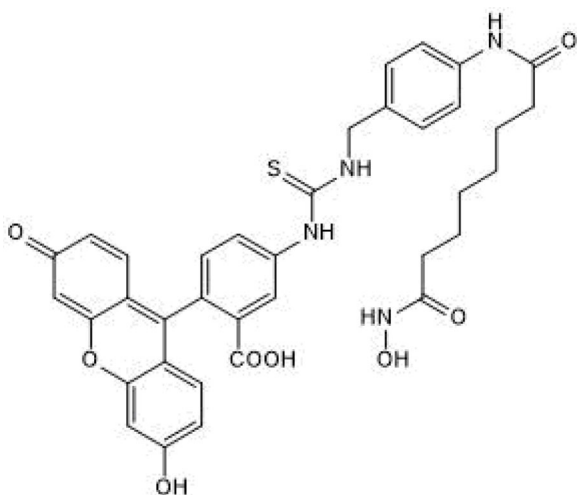
Batch Molecular Formula: $C_{36}H_{34}N_4O_8S$

Batch Molecular Weight: 682.75

Physical Appearance: Yellow solid

Minimum Purity: $\geq 90\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Payne and Mazitschek (2022) Resolving the deceptive isoform and complex selectivity of HDAC1/2 inhibitors. *Cell Chem.Biol.* **29** 1140. PMID: 35298895.

Kral et al (2014) Divergent kinetics differentiate the mechanism of action of two HDAC inhibitors. *Biochemistry* **53** 725. PMID: 24450491.

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