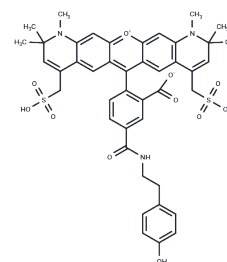


5-AF594 tyramide

Chemical Properties

CAS No. :	3046210-60-7
Formula:	C43H43N3O11S2
Molecular Weight:	841.95
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	5-AF594 tyramide is a red fluorescent dye (Ex=590 nm, Em=618 nm). It serves as a fluorescent substrate reported for horseradish peroxidase (HRP)-catalyzed deposition, aiding in tyramide signal amplification (TSA). 5-AF594 tyramide is applicable in multicolor immunohistochemistry experiments (mIHC).
Targets(IC50)	Others
In vitro	5-AF594 tyramide detection involves several steps: 1) Incubate slices in 0.25% Triton X-100 at room temperature for 10 minutes to permeabilize; 2) Incubate with primary antibody overnight at 4°C; 3) Block endogenous peroxidase activity by incubating in 1x PBS with 3% H2O2 for 20 minutes; 4) Incubate with FITC-conjugated anti-rabbit IgG primary antibody at room temperature for 1 hour (1:100 dilution), followed by incubation with FITC-conjugated HRP antibody at 4°C overnight (1:500 dilution); 5) Incubate with 5-AF594 tyramide for 10 minutes (1:200 dilution); 6) Detect using a fluorescence microscope. Note: It is recommended to determine the optimal concentration of 5-AF594 tyramide working solution based on specific conditions. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1877 mL	5.9386 mL	11.8772 mL
5 mM	0.2375 mL	1.1877 mL	2.3754 mL
10 mM	0.1188 mL	0.5939 mL	1.1877 mL
50 mM	0.0238 mL	0.1188 mL	0.2375 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481