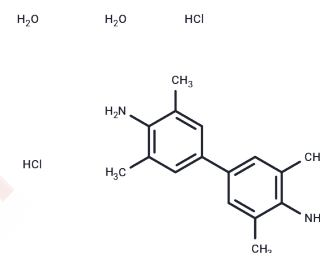


TMB dihydrochloride x.hydrate

Chemical Properties

CAS No. :	207738-08-7
Formula:	C ₁₆ H ₂₆ Cl ₂ N ₂ O ₂
Molecular Weight:	349.3
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	TMB(dihydrochloride x.hydrate) is the dihydrochloride salt and hydrate form of TMB. It is a non-toxic and non-mutagenic colorless dye used as a chromogenic agent in horseradish peroxidase-based assay systems. This compound also serves as a photoacoustic probe for reactive oxygen and nitrogen species (ROS/RNS), reacting with hypochlorite, hydrogen peroxide, singlet oxygen, and nitrogen dioxide to produce a blue oxidized product. Additionally, TMB(dihydrochloride x.hydrate) can detect singlet oxygen produced by the outer membrane of Escherichia coli ATCC 25922.
Targets(IC50)	Reactive Oxygen Species
In vitro	TMB (dihydrochloride x.hydrate) binds closely to the outer membrane of Escherichia coli (E. coli) ATCC 25922 cells without being internalized, enabling the detection of singlet oxygen produced by the membrane.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8629 mL	14.3143 mL	28.6287 mL
5 mM	0.5726 mL	2.8629 mL	5.7257 mL
10 mM	0.2863 mL	1.4314 mL	2.8629 mL
50 mM	0.0573 mL	0.2863 mL	0.5726 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

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