

Ageladine A dihydrochloride

Chemical Properties

CAS No. : 2757574-06-2
 Formula: C₁₀H₉Br₂Cl₂N₅
 Molecular Weight: 429.926
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ageladine A dihydrochloride, derived from the marine sponge <i>Agelas nakamura</i> , serves as a matrix metalloproteinase (MMP) inhibitor with anti-angiogenic properties. It inhibits MMP-2, MMP-1, MMP-8, MMP-9, MMP-12, and MMP-13, with IC ₅₀ values of 4.65 μM, 2.79 μM, 907.12 nM, 1.83 μM, 767.57 nM, and 1.09 μM, respectively. As a pH-sensitive membrane-permeable dye, it emits fluorescence in the blue-green range when excited by ultraviolet light, with a maximum absorption peak at 370 nm. Additionally, Ageladine A dihydrochloride is used as a reliable and stable fluorescent pH sensor to detect intracellular pH changes.
Targets(IC ₅₀)	MMP

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.326 mL	11.6298 mL	23.2596 mL
5 mM	0.4652 mL	2.326 mL	4.6519 mL
10 mM	0.2326 mL	1.163 mL	2.326 mL
50 mM	0.0465 mL	0.2326 mL	0.4652 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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