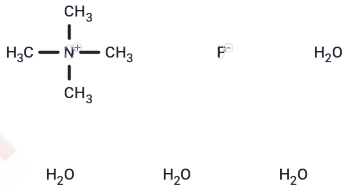
Data Sheet (Cat.No.TYD-01385)

TargetMol

Tetramethylammonium fluoride tetrahydrate

Chemical Properties



CAS No. : 17787-40-5

Formula: C4H20FNO4

Molecular Weight: 165.2

Storage: Keep away from moisture
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	Tetramethylammonium fluoride tetrahydrate (TMAF) is a quaternary ammonium salt. It serves as a weak base and a fluoride ion source in various organic reactions, such as nucleophilic substitutions, deprotection of functional groups, and ring-opening polymerizations. Unlike other sources of fluoride, TMAF is compatible with numerous functional groups, making it a versatile reagent in synthetic chemistry. Additionally, TMAF is utilized as a fluorinating agent in medicinal chemistry for the preparation of radioactive tracers and in biochemistry for protein modification. The tetrahydrate form of TMAF is more stable and easier to handle than its anhydrous counterpart.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0533 mL	30.2663 mL	60.5327 mL
5 mM	1.2107 mL	6.0533 mL	12.1065 mL
10 mM	0.6053 mL	3.0266 mL	6.0533 mL
50 mM	0.1211 mL	0.6053 mL	1.2107 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.

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