Tetrabutylammonium (fluoride)

Cat. No.: HY-Y0971

CAS No.: 429-41-4

Molecular Formula: $C_{16}H_{36}FN$

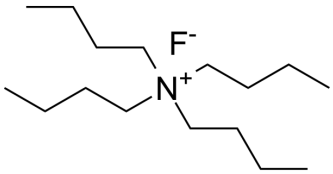
Molecular Weight: 261.46

Target: Biochemical Assay Reagents

Pathway: Others

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (382.47 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8247 mL	19.1234 mL	38.2468 mL
	5 mM	0.7649 mL	3.8247 mL	7.6494 mL
	10 mM	0.3825 mL	1.9123 mL	3.8247 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (9.56 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.56 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tetrabutylammonium fluoride is an organic compound containing both ammonium and fluorine functional groups. It is commonly used as a reagent in various chemical synthesis applications, especially as a source of fluoride ions for nucleophilic reactions. Tetrabutylammonium fluoride has several properties that make it suitable for these applications, including its high solubility in polar solvents and its ability to selectively activate certain chemical bonds. In addition, it can be used as a catalyst for organic reactions and as an electrolyte for batteries.

In Vitro

Tetrabutylammonium fluoride is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Caution: Product has not been fully validated for medical applications. For research use only.

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