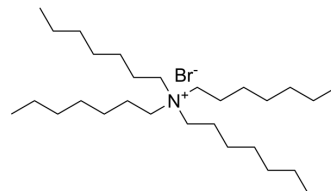


Tetraheptylammonium bromide (>98%,BC)

Cat. No.:	HY-W010795		
CAS No.:	4368-51-8		
Molecular Formula:	C ₂₈ H ₆₀ BrN		
Molecular Weight:	490.7		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-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 (203.79 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	2.0379 mL	10.1895 mL
5 mM			0.4076 mL	2.0379 mL	4.0758 mL
10 mM			0.2038 mL	1.0190 mL	2.0379 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tetraheptylammonium bromide (>98%,BC) (THAB) is a quaternary ammonium compound commonly used as a phase transfer catalyst in organic synthesis reactions, especially those involving charged species or polar reagents. It can facilitate the transfer of reactants between two immiscible phases, such as water and organic solvents, by forming stable ion pairs. In addition, THAB is used as a surfactant, and as an additive in various products such as cosmetics, pharmaceuticals, and detergents. Due to THAB's ability to form complexes with these ions, its potential use in the removal of heavy metal ions from wastewater was also investigated.

In Vitro

Tetraheptylammonium bromide 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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