

## 1-Hexadecyl-3-methylimidazolium hexafluorophosphate

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	1-Hexadecyl-3-methylimidazolium hexafluorophosphate (C16mimPF6) is an ionic liquid characterized by a long alkyl-chain imidazolium structure. It is utilized in the creation of inclusion complexes with $\beta$ -cyclodextrin, and as an electrolyte additive in aluminum-air batteries. When incorporated into phosphatidylcholine (PC) vesicles at concentrations of 10-30 mol%, it reduces particle size and turbidity while enhancing zeta potential. Furthermore, PC vesicles with C16mimPF6 exhibit a lower cytotoxic effect on HaCaT, A431, and SCC-25 cells compared to those with 1-hexadecyl-3-methylimidazolium bromide (C16mimBr).
Targets(IC50)	Others

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