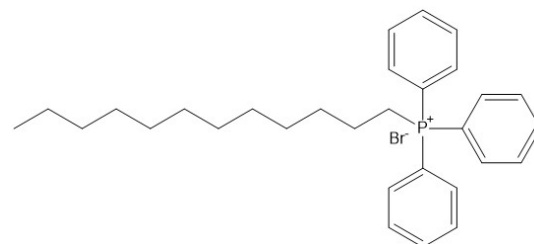

Catalog	Unit
TBI3781-50MG	50 mg
TBI3781-250MG	250 mg

Product Details

Formal Name: Dodecyltriphenylphosphonium bromide
Molecular Formula: C₃₀H₄₀BrP
Formula Weight: 511.50
CAS Number: 15510-55-1
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO up to 50 mg/ml, or Ethanol (25 mg/ml)
Storage: RT
Stability: ≥ 2 years.



Applications

Mitochondria-targeted cancer stem cell inhibitor

Functions

A mitochondria-targeting agent which inhibits mitochondrial function inhibiting oxidative phosphorylation and shifting cell metabolism to glycolysis. Potently eradicates cancer stem cells (50 nM to 1 mM) selectively over normal cells. Synergizes with FDA-approved drugs such as doxycycline and niclosamide as well as natural compounds such as berberine. Selectively inhibits the growth of Gram-positive over Gram-negative bacteria.

Application Procedures

First dissolved in DMSO up to 50 mg/ml, or Ethanol (25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

For research use only.