

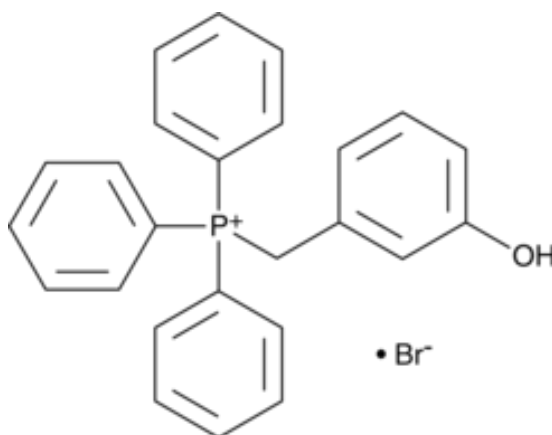
## Product Data Sheet

Product Name: MitoP  
Cat. No.: GC44201

### Chemical Properties

Cas No.	74597-01-6		
Canonical SMILES	<chem>OC1=CC=CC(C[P+](C2=CC=CC=C2)(C3=CC=CC=C3)C4=CC=CC=C4)=C1.[Br-]</chem>		
分子式	C <sub>25</sub> H <sub>22</sub> OP•Br	分子量	449.3
溶解度	DMF: 20 mg/mL, DMSO: 20 mg/mL, DMSO:PBS (pH 7.2) (1:1): 0.5 mg/mL, Ethanol: 12 mg/mL	储存条件	Store at -20°C
General tips	For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.		

Structure



### Background

MitoP is a phenol product produced by the reaction of H<sub>2</sub>O<sub>2</sub> with the ratiometric mass spectrometry probe MitoB. MitoB contains a triphenylphosphonium cation component that drives its accumulation in mitochondria where its arylboronic moiety selectively reacts with H<sub>2</sub>O<sub>2</sub> to produce MitoP. Quantifying the MitoP/MitoB ratio by LC-MS/MS reflects the mitochondrial matrix H<sub>2</sub>O<sub>2</sub> concentration.

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

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