

## AP39, Mitochondrial-targeted hydrogen sulfide donor

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Catalog	Unit
TBI3916-5MG	5 mg
TBI3916-25MG	25 mg

### Product Details

**Formal Name:** (10-Oxo-10-(4-(3-thioxo-3H-1,2-dithiol-5-yl)phenoxy)decyl)triphenylphosphonium bromide

**Molecular Formula:** C<sub>37</sub>H<sub>38</sub>BrO<sub>2</sub>PS<sub>3</sub>

**Formula Weight:** 721.77

**CAS Number:** 1429173-57-8

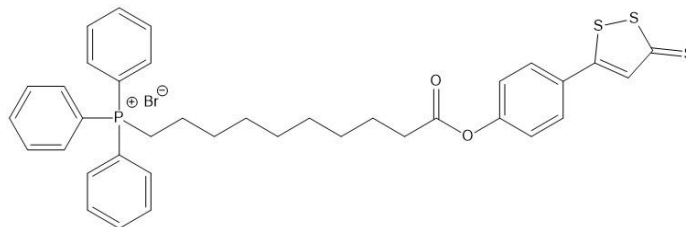
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (35 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Mitochondrial-targeted hydrogen sulfide donor

### Functions

AP39 is a mitochondrially targeted hydrogen sulfide donor. At lower concentrations (30-100 nM), it acts as an electron donor and stimulator of mitochondrial electron transport and ATP production. AP39 displayed antioxidant and cytoprotective effects in oxidatively stressed endothelial cells. It displayed protective effects in various pathological states including renal injury, Alzheimer's, ischemia, and reperfusion injury. Improves outcomes in subnormothermic organ preservation models.

### Application Procedures

First dissolved in DMSO (35 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month. Hygroscopic! Protect from moisture and air.

**For research use only.**