

Catalog	Unit
TBI5492-5MG	5 mg
TBI5492-25MG	25 mg

### Product Details

**Formal Name:** (10-(1-(2,4-Dichlorobenzyl)-1H-indazole-3-carboxamido)decyl)triphenylphosphonium bromide

**Molecular Formula:** C<sub>43</sub>H<sub>45</sub>BrCl<sub>2</sub>N<sub>3</sub>OP

**Formula Weight:** 801.60

**CAS Number:** 2361564-49-8

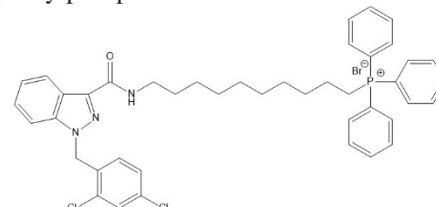
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (30 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Mitochondria-targeted antiglycolytic agent

### Functions

Lonidamine is an antiglycolytic drug with limited efficacy. Mito-lonidamine is lonidamine conjugated to a triphenylphosphonium moiety via a decyl-linker which is an effective mitochondria-targeting group. Mito-lonidamine was shown to be 100-fold more potent than lonidamine. It is a tumor-selective inhibitor of oxidative phosphorylation inhibiting mitochondrial bioenergetics in lung cancer cells and suppressing lung cancer cell viability, growth, progression and metastasis of lung cancer xenografts in mice.

### Application Procedures

First dissolved in DMSO (30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**