

Catalog	Unit
TBI3902-10MG	10 mg
TBI3902-50MG	50 mg

### Product Details

**Formal Name:** 5-Bromo-5'-phenylspiro[1H-indole-3,2'-3H-1,3,4-thiadiazole]-2-one;

**Alternate Names:** CB16.2

**Molecular Formula:** C<sub>15</sub>H<sub>10</sub>BrN<sub>3</sub>OS

**Formula Weight:** 360.2

**CAS Number:** 297180-15-5

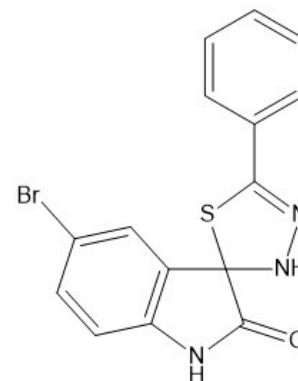
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (up to 20 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Fatty acid transport protein 2 (FATP2) inhibitor

### Functions

Lipofermata is an inhibitor of fatty acid transport protein 2 (FATP2; IC<sub>50</sub> = 4.84 μM). It does not inhibit glucose transport or the activity of long chain acyl-CoA synthetase. It prevented palmitate-mediated oxidative stress, induction of BiP and CHOP, and cell death in a dose-dependent manner in hsHepG2 and mNS-1E cells suggesting utility in preventing fatty acid-mediated cell death pathways and lipotoxic disease. Inhibition was specific for long and very long chain fatty acids but not medium (C6-C10) acids. Lipofermata abrogates lipid transport into melanoma cells and reduces melanoma growth and invasion.

### Application Procedures

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

**For research use only.**