

## Siramesine, Selective sigma-2 agonist

Catalog	Unit
TBI4202-5MG	5 mg
TBI4202-25MG	25 mg

### Product Details

**Formal Name:** 1'-[4-[1-(4-Fluorophenyl)indol-3-yl]butyl]spiro[1H-2-benzofuran-3,4'-piperidine];

**Alternate Names:** Lu 28-179

**Molecular Formula:** C<sub>30</sub>H<sub>31</sub>FN<sub>2</sub>O

**Formula Weight:** 454.59

**CAS Number:** 147817-50-3

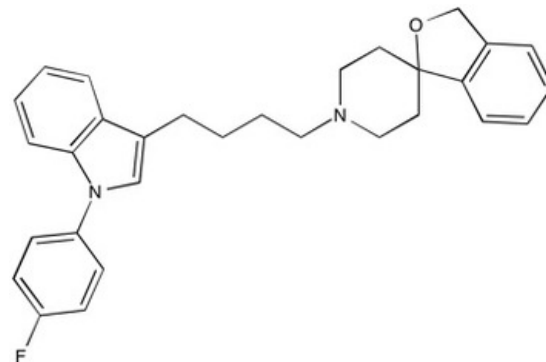
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to at least 25 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Selective sigma-2 agonist

### Functions

Siramesine (Lu 28-179) is a  $\sigma_2$  selective agonist (IC<sub>50</sub>'s:  $\sigma_1 = 17\text{nM}$ ,  $\sigma_2 = 0.2\text{nM}$ ). It produced non-sedating potent and long-last anxiolytic effects in rodents. Siramesine induced caspase-independent programmed cell death in various cancer cell lines via increased levels of ROS and lysosomal leakage. Mitochondrial destabilization via loss of membrane potential and increased ROS has also been offered as a mechanism of action for the triggering of cell death by Siramesine.

### Application Procedures

First dissolved in DMSO (up to at least 25 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.**