

## Moxidectin, Anthelmintic/YAP-TAZ blocker

Catalog	Unit
TBI4436-20MG	20 mg
TBI4436-100MG	100 mg

### Product Details

**Formal Name:** (1R,4S,4'E,5'S,6R,6'S,8R,10E,13R,14E,16E,20R,21R,24S)-21,24-dihydroxy-4'-methoxyimino-5',11,13,22-tetramethyl-6'-[(E)-4-methylpent-2-en-2-yl]spiro[3,7,19-trioxatetracyclo[15.6.1.14,8.020,24]pentacos-10,14,16,22-tetraene-6,2'-oxane]-2-one

**Molecular Formula:** C<sub>37</sub>H<sub>53</sub>NO<sub>8</sub>

**Formula Weight:** 639.8

**CAS Number:** 113507-06-5

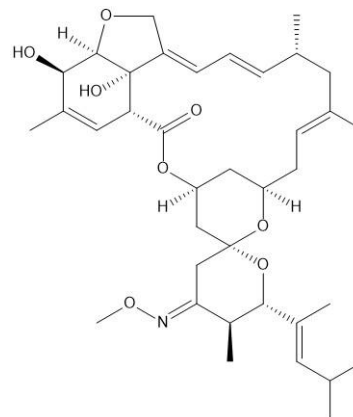
**Purity:** >98%

**Formulation:** Powder

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

**Storage:** -20°C

**Stability:** ≥ 2 years



### Applications

Anthelmintic/YAP-TAZ blocker

### Functions

Macrocyclic lactone anthelmintic drug used in veterinary medicine for the treatment of various parasitic diseases. In 2018, It was approved for use in the treatment of river-blindness in humans. Moxidectin is also being investigated as a possible treatment for scabies in humans. Inhibited the proliferation of several glioblastoma multiforme (GBM) cell lines via induction of apoptosis. It inhibited the MEK-ERK pathway resulting in blocking of nuclear translocation and transcription of the YAP/TAZ-TEAD complex in GBM cells. It suppressed growth of GBM tumors by 90% in an intracranial tumor model.

### 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.**