

## ML210, GPX4 inhibitor; Ferroptosis Inducer

Catalog	Unit
TBI4002-10MG	10 mg
TBI4002-50MG	50 mg

### Product Details

**Formal Name:** (4-(Bis(4-chlorophenyl)methyl)piperazine-1-yl)(5-methyl-4-nitroisoxazol-3-yl)methanone

**Molecular Formula:** C<sub>22</sub>H<sub>20</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>4</sub>

**Formula Weight:** 475.3

**CAS Number:** 1360705-96-9

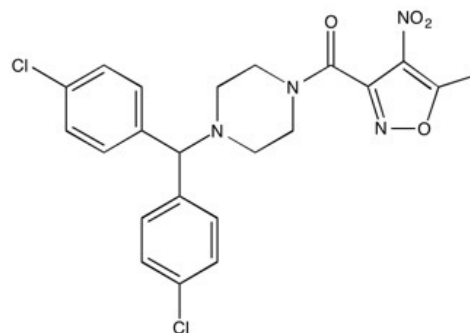
**Purity:** >98%

**Formulation:** Powder

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

**Storage:** RT

**Stability:** ≥ 1 year.



### Applications

GPX4 inhibitor; Ferroptosis Inducer

### Functions

ML210 inhibits glutathione peroxidase 4 (GPX4), an important selenoenzyme that protects cells from ferroptosis caused by iron-catalyzed formation of free radicals from lipid peroxides. Exposure of several treatment-resistant cancer cell lines exhibiting a high mesenchymal state to ML210 resulted in selective induction of ferroptosis. ML210 is selectively lethal to HRAS<sup>g12v</sup> expressing cells (IC<sub>50</sub> = 7.1 nM for BJeLR cells) compared to isogenic cells without HRAS<sup>g12v</sup> (IC<sub>50</sub> = 272 nM for BJeH-LT cells). LUHMES dopaminergic neurons are highly susceptible to ML210-induced ferroptosis.

### Application Procedures

First dissolved in DMSO (up to 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.**