



## Product Information

### ML 145

**Cat. No.:** X23-12-YM1220

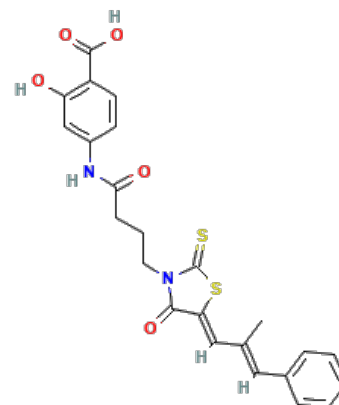
**Size:** 1 mg; 5 mg; 10 mg; 50 mg

**CAS Number:** 1164500-72-4

**Compound CID:** 2286812

**Synonym:** 1164500-72-4; ML145; ML-145

**This product is for research use only and is not intended for diagnostic use.**



### Product Information

|                          |  |
|--------------------------|--|
| <b>Description</b>       | ML 145 inhibits autophagy, through multiple signaling pathways.  |
| <b>Molecular Weight</b>  | 482.57   |
| <b>Molecular Formula</b> | C <sub>24</sub> H <sub>22</sub> N <sub>2</sub> O <sub>5</sub> S <sub>2</sub>   |
| <b>IUPAC Name</b>        | 2-Hydroxy-4-[4-[(5Z)-5-[(E)-2-methyl-3-phenylprop-2-enylidene]-4-oxo-2-sulfanylidene-1,3-thiazolidin-3-yl]butanoylamino]benzoic acid   |
| <b>InChI</b>             | InChI=1S/C24H22N2O5S2/c1-15(12-16-6-3-2-4-7-16)13-20-22(29)26(24(32)33-20)11-5-8-21(28)25-17-9-10-18(23(30)31)19(27)14-17/h2-4,6-7,9-10,12-14,27H,5,8,11H2,1H3,(H,25,28)(H,30,31)/b15-12+,20-13- |
| <b>InChI Key</b>         | COFMYJWNXSFLKQ-QIROLCGISA-N  |
| <b>Canonical SMILES</b>  | CC(=CC1=CC=CC=C1)C=C2C(=O)N(C(=S)S2)CCCC(=O)NC3=CC(=C(C=C3)C(=O)O)O  |
| <b>Isomeric SMILES</b>   | C/C(=C\C1=CC=CC=C1)/C=C\2/C(=O)N(C(=S)S2)CCCC(=O)NC3=CC(=C(C=C3)C(=O)O)O   |
| <b>Form</b>              | Lyophilized powder   |
| <b>Purity</b>            | >98%   |
| <b>Stability</b>         | The product is stable for three years when stored at the recommended temperature in lyophilized powder.  |
| <b>Applications</b>      | ML 145 can be used for its ability to reduce airway inflammation, constriction, and mucus production, thereby improving asthma control and reducing the frequency of asthma attacks.             |
| <b>Storage</b>           | Store at -20°C, and keep desiccated.   |