

## Product Data Sheet

Product Name: JKE-1716

Cat. No.: GC47478

### Chemical Properties

Cas. No. 2421118-05-8

SMILES O=C(CC([N+])([O-])=O)=NO)N1CCN(C(C2=CC=C(Cl)C=C2)C3=CC=C(Cl)C=C3)CC1

Formula C<sub>20</sub>H<sub>20</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>4</sub>

M.Wt 451.3

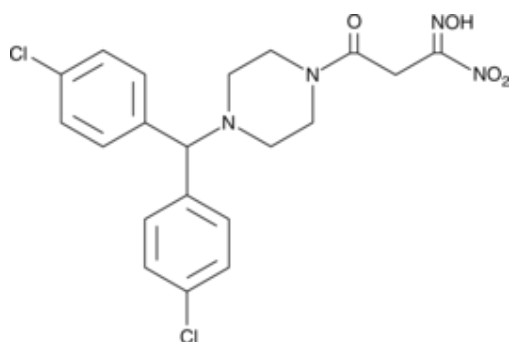
Solubility DMSO: soluble

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



### Background

JKE-1716 is an inhibitor of glutathione peroxidase 4 (GPX4) and a derivative of the GPX4 inhibitor ML-210.<sup>1</sup> JKE-1716 reduces viability of LOX-IMVI cancer cells in a concentration-dependent manner and in a panel of additional cancer cell lines, an effect that can be blocked by the ferroptosis inhibitor ferrostatin-1.

1. Eaton, J.K., Furst, L., Ruberto, R.A., et al. Selective covalent targeting of GPX4 using masked nitrile-oxide electrophiles. *Nat. Chem. Biol.* 16(5)497-506(2020)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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