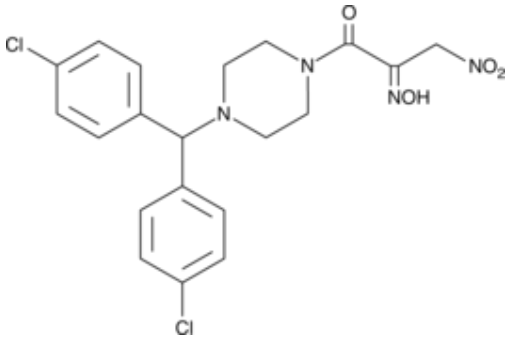
Product Data Sheet

Product Name: JKE-1674
Cat. No.: GC47477

Chemical Properties

Cas. No.	2421119-60-8		
SMILES	O=C(C(C[N+]([O-])=O)=NO)N1CCN(C(C2=CC=C(Cl)C=C2)C3=CC=C(Cl)C=C3)CC1		
Formula	C20H20Cl2N4O4	M.Wt	451.3
Solubility	DMSO: soluble	Storage	4°C, protect from light
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-1674 is an inhibitor of glutathione peroxidase 4 (GPX4) and an active metabolite of the GPX4 inhibitor ML-210 .[1] JKE-1674 reduces viability of LOX-IMVI cancer cells (EC_{50} = 0.03 µM) 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 electrophilesNat. 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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