

WJ-39

## Chemical Properties

CAS No. : 3009908-95-3

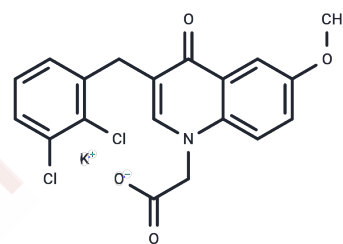
Formula: C<sub>19</sub>H<sub>14</sub>Cl<sub>2</sub>KNO<sub>4</sub>

Molecular Weight: 430.32

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	WJ-39 is an orally active aldose reductase (AR) inhibitor that ameliorates renal lesions in diabetic nephropathy through activation of Nrf2 signaling, and may be used to ameliorate renal insufficiency and fibrosis. WJ-39 inhibits oxidative stress and inhibits the activation of the inflammatory vesicle of the oligomerization structural domain-like receptor family, pyrin structural domain 3 (NLRP3).
Targets(IC50)	Apoptosis, Mitophagy, Reductase, Mitochondrial Metabolism

## Solubility Information

Solubility	DMSO: 100 mg/mL (232.39 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3239 mL	11.6193 mL	23.2385 mL
5 mM	0.4648 mL	2.3239 mL	4.6477 mL
10 mM	0.2324 mL	1.1619 mL	2.3239 mL
50 mM	0.0465 mL	0.2324 mL	0.4648 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yang L, et al. An aldose reductase inhibitor, WJ-39, ameliorates renal tubular injury in diabetic nephropathy by activating PINK1/Parkin signaling. Eur J Pharmacol. 2024 Mar 15;967:176376.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481