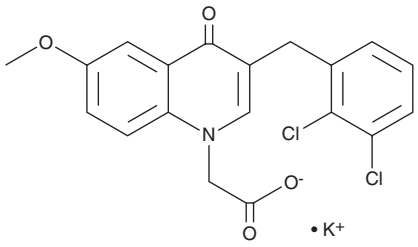
PRODUCT INFORMATION

WJ-39

Item No. 46467

CAS Registry No.:	3009908-95-3
Formal Name:	3-[(2,3-dichlorophenyl)methyl]-6-methoxy-4-oxo-1(4H)-quinolineacetic acid, monopotassium salt
MF:	$C_{19}H_{14}Cl_2NO_4 \bullet K$
FW:	430.3
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

WJ-39 is supplied as a solid. A stock solution may be made by dissolving the WJ-39 in the solvent of choice, which should be purged with an inert gas. WJ-39 is soluble (≥10 mg/ml) in organic solvents such as ethanol and DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of WJ-39 can be prepared by directly dissolving the solid in aqueous buffers. WJ-39 is sparingly soluble (1-10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

WJ-39 is an inhibitor of aldose reductase.[1,2] It reduces high glucose-induced increases in mitochondrial reactive oxygen species (ROS) production and apoptosis in HK-2 kidney epithelial cells.[2] WJ-39 (20-40 mg/kg) reduces renal aldose reductase activity, increases renal mitophagy, and rescues renal tubule morphology in a rat model of diabetic nephropathy induced by streptozotocin (Item No. 13104) and a high-fat diet.[1,2]

References

1. Zhou, X., Liu, Z., Ying, K., *et al.* WJ-39, an aldose reductase inhibitor, ameliorates renal lesions in diabetic nephropathy by activating Nrf2 signaling. *Oxid. Med. Cell. Longev.* 7950457 (2020).
2. Yang, L., Xu, L., Hao, X., *et al.* An aldose reductase inhibitor, WJ-39, ameliorates renal tubular injury in diabetic nephropathy by activating PINK1/Parkin signaling. *Eur. J. Pharmacol.* **967**, 176376 (2024).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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