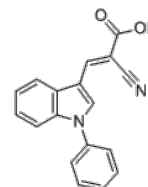


Product Name : UK5099
Cat. No. : PC-38841
CAS No. : 56396-35-1
Molecular Formula : C₁₈H₁₂N₂O₂
Molecular Weight : 288.3
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

UK5099 (PF-1005023) is a potent inhibitor of the **mitochondrial pyruvate carrier** (MPC), inhibits pyruvate-dependent oxygen consumption by rat heart mitochondria with IC₅₀ of 50 nM.

UK 5099 is a potent non-competitive inhibitor of pyruvate oxidation in castor-bean mitochondria.

UK 5099 impaired glucose tolerance in vivo.

References

Parvin R, et al. *J Biol Chem*. 1978 Mar 25;253(6):1944-6.

Brailsford MA, et al. *Biochem J*. 1986 Oct 15;239(2):355-61.

Patterson JN, et al. *J Biol Chem*. 2014 May 9;289(19):13335-46.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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