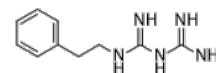


Product Name : Phenformin
Cat. No. : PC-26811
CAS No. : 114-86-3
Molecular Formula : C₁₀H₁₅N₅
Molecular Weight : 205.27
Target : AMPK
Solubility : 10 mM in DMSO



Biological Activity

Phenformin (Phenethylbiguanide) is an orally active biguanide hypoglycemic agent that inhibits mitochondrial respiratory chain complex I, leading to an increased AMP/ATP ratio, activation of AMPK, and subsequent inhibition of the mTOR pathway, thereby suppressing cell proliferation, inducing apoptosis and autophagy.

References

García Rubiño ME, et al. Int J Mol Sci. 2019;20(13):3316. Published 2019 Jul 5.

Hu S, et al. Mol Med Rep. 2018;17(4):6028-6032.

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

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