

Metformin

Cat. No.:	0225LY-0509
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and LC-MS.
Size:	10 mg; 25 mg; 50 mg; 100 mg; 500 mg

This product is for research use only and is not intended for diagnostic use.

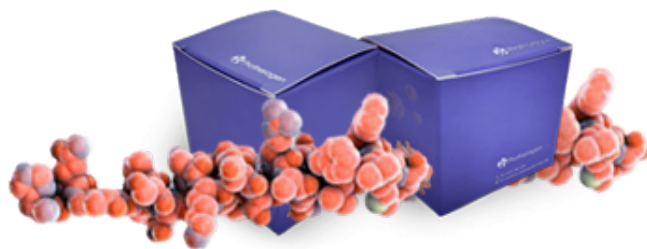
Product Overview

Description	Metformin is a brain-permeable AMPK activator frequently used in type 2 diabetes studies to enhance insulin sensitivity and lower glucose absorption in the intestines.
Synonym	1,1-Dimethylbiguanide; 657-24-9; N,N-Dimethylimidodicarbonimidic diamide; Fluamine; Metiguanide; Dimethylbiguanide; N-Dimethylbiguanide
CAS No.	657-24-9
Compound CID	4091
Formula	C ₄ H ₁₁ N ₅
Formula Weight	129.16

Specification

Relative Density	1.0743 g/cm ³
IUPAC Name	3-(Diaminomethylidene)-1,1-dimethylguanidine
InChI	InChI=1S/C4H11N5/c1-9(2)4(7)8-3(5)6/h1-2H3,(H5,5,6,7,8)
InChI Key	XZWYZXLIPXDOLR-UHFFFAOYSA-N
SMILES string	CN(C)C(=N)N=C(N)N
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Metformin can be used in metabolic research or play a vital role in investigating the activation of AMPK and its anti-aging properties.

Library Information



Target	AMPK
Receptor	AMPK
Pathways	Autophagy; Chromatin/Epigenetic; PI3K/Akt/mTOR signaling
Plate Number	AOCL-7
Plate Location	e11
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	49 mg/mL; 379.37 mM
Water Max Solubility	100 mg/mL; 774.23 mM