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DATASHEET

3-Methyladenine

Product overview

Name	3-Methyladenine
Cat No	HB2267
Alternative names	3-MA
Biological action	Inhibitor
Purity	>99%
Description	PI-3K inhibitor

Biological Data

Biological description	Phosphoinositide 3-kinase (PI-3K) inhibitor. Inhibits autophagy, modulates endosomal membrane trafficking and stimulates adipocyte PKA-dependent lipolysis. May potentiate the action of anticancer drugs.
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Solubility & Handling

Storage instructions	+4 °C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	3-Methyl-3 <i>H</i> -purin-6-amine
Molecular Weight	149.15
Chemical structure	
Molecular Formula	C ₆ H ₇ N ₅
CAS Number	5142-23-4
PubChem identifier	1673
SMILES	NC(N=CN2C)=C1C2=NC=N1
InChiKey	FSASIHFSFGAIJM-UHFFFAOYSA-N

References

3-Methyladenine, an inhibitor of autophagy, has multiple effects on metabolism.

Caro et al (1988) Eur J Biochem 175(2)

PubMedID [3402459](#)

3-Methyladenine induces cell death and its interaction with chemotherapeutic drugs is independent of autophagy.

Sheng et al (2013) Biochem Biophys Res Commun. 432(1)

PubMedID [23395679](#)

3-Methyladenine specifically inhibits retrograde transport of cation-independent mannose 6-phosphate/insulin-like growth factor II receptor from the early endosome to the TGN.

