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DATASHEET

Anisomycin

Product overview

Name	Anisomycin
Cat No	HB2239
Alternative names	ANI | Flagecidin
Purity	>98%
Description	Protein synthesis inhibitor. Potent JNK / p38 MAPK activator.

Biological Data

Biological description	Protein synthesis inhibitor which prevents elongation and causes polysome stabilization by binding to the 60S ribosomal subunit to prevent peptide bond formation. Also acts as a potent JNK and p38 MAPK activator. Initiates intracellular signals for rapid induction of immediate-early (IE) genes (e.g. c-fos, fosB, c-jun, JunB and JunD). Additionally, thought to block late long-term potentiation (L-LTP) and at high doses reduces neuronal activity.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in ethanol (50 mM) and DMSO (100 mM)
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	(2R,3S,4S)-2-[(4-Methoxyphenyl)methyl]-3,4-pyrrolidinediol 3-acetate
Molecular Weight	265.31
Chemical structure	
Molecular Formula	$C_{14}H_{19}NO_4$
CAS Number	22862-76-6
PubChem identifier	253602
SMILES	CC(=O)O[C@@H]1[C@H](CN[C@@H]1CC2=CC=C(C=C2)OC)O
InChiKey	YKJYKKNCCRKFSL-RDBSUJKOSA-N
MDL number	MFCD00077650
Appearance	White to off-white

References

Anisomycin selectively desensitizes signalling components involved in stress kinase activation and fos and jun induction.

Hazzalin et al (1998) Mol Cell Biol. 18(4)

PubMedID 9528756

The protein synthesis inhibitor anisomycin induces macrophage apoptosis in rabbit atherosclerotic plaques through p38 mitogen-activated protein kinase.

Croons et al (19286921) J Pharmacol Exp Ther 329(3)
PubMedID 19286921

Effects of anisomycin on LTP in the hippocampal CA1: long-term analysis using optical recording.

Mochida et al (2001) Neuroreport 12(5)
PubMedID 11303774