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## DATASHEET

### Anisomycin

#### Product overview

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

#### Biological Data

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

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in ethanol (50 mM) and DMSO (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

#### Chemical Data

<b>Chemical name</b>	(2R,3S,4S)-2-[(4-Methoxyphenyl)methyl]-3,4-pyrrolidinediol 3-acetate
<b>Molecular Weight</b>	265.31
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>19</sub> NO <sub>4</sub>
<b>CAS Number</b>	22862-76-6
<b>PubChem identifier</b>	253602
<b>SMILES</b>	CC(=O)O[C@@H]1[C@H](CN[C@@H]1CC2=CC=C(C=C2)OC)O
<b>InChiKey</b>	YKJYKKNCCRKFSL-RDBSUJKOSA-N
<b>MDL number</b>	MFCD00077650
<b>Appearance</b>	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](#)

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