222 Store at -20C

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 Anisomycin
 Image: Cell Signaling Technology

 0rders:
 877-616-CELL (2355) orders@cellsignal.com

 10 mg
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## For Research Use Only. Not for Use in Diagnostic Procedures.

Background	Anisomycin, an antibiotic produced by <i>Streptomyces griseolus</i> and <i>S. roseochromogenes</i> , was originally described to inhibit protein-protein synthesis at the translational level (1). More recently, it is has been well characterized to strongly activate the stress kinases SAPK/JNK and p38 MAPK, as well as p70/85 S6 kinase in mammalian cells, which results in the rapid induction of immediate-early (IE) genes, such as c-fos, fosB, c-jun, JunB, and JunD (1). Investigators have demonstrated that anisomycin acts as a potent signaling agonist, synergizing with growth factors and phorbol esters to superinduce these IE genes (1,2). Research studies have demonstrated that anisomycin induces apoptosis in many cancer cell lines (3-5).
Molecular Formula	C <sub>14</sub> H <sub>19</sub> NO <sub>4</sub>
Molecular Weight	265.3 g/mol
Purity	>98%
CAS	22862-76-6
Solubility	Soluble in DMSO at 100mg/ml and MeOH at 50mg/ml.
Storage	Store lyophilized at -20C. Protect from light. In lyophilized form, the chemical is stable for 24 months. Once in solution, use within 1 month and store at -20C. Aliquot to avoid multiple freeze/thaw cycles.
Directions for Use:	Anisomycin is supplied as a lyophilized powder. For a 25 mg/ml stock, reconstitute the 10 mg in 400 µl DMSO. Working concentrations and length of treatments vary depending on the desired effect, but it is typically used at 5-50 µg/ml for 5-60 minutes. Soluble in DMSO or MeOH.
Background References	<ol> <li>Hazzalin, C.A. et al. (1998) <i>Mol Cell Biol</i> 18, 1844-54.</li> <li>Kardalinou, E. et al. (1994) <i>Mol Cell Biol</i> 14, 1066-74.</li> <li>Kochi, S.K. and Collier, R.J. (1993) <i>Exp Cell Res</i> 208, 296-302.</li> <li>Törocsik, B. and Szeberényi, J. (2000) <i>Biochem Biophys Res Commun</i> 278, 550-6.</li> <li>Curtin, J.F. and Cotter, T.G. (2002) <i>Br J Cancer</i> 87, 1188-94.</li> </ol>
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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