

Product datasheet

Anisomycin ab120495

1 References 1 Image

Overview

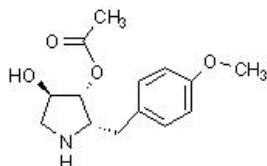
Product name	Anisomycin
Description	Protein synthesis inhibitor
Biological description	Translational inhibitor of protein synthesis. Highly potent activator of kinase cascades. Potently activates stress-activated protein kinases, p38, JNK MAP and other kinases.
Purity	> 98%

Properties

Chemical name (2R,3S,4S)-2-(4-Methoxybenzyl)-3,4-pyrrolidinediol-3-acetate

Molecular weight 265.31

Chemical structure



Molecular formula C₁₄H₁₉NO₄

CAS Number 22862-76-6

PubChem identifier 31549

Storage instructions Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview Soluble in DMSO to 100 mM and in ethanol to 100 mM

Handling Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Toxic, refer to SDS for further information.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES O=C(C)O[C@@H]2[C@H](Cc1ccc(OC)cc1)NC[C@H]2O

Source *Streptomyces griseolus*

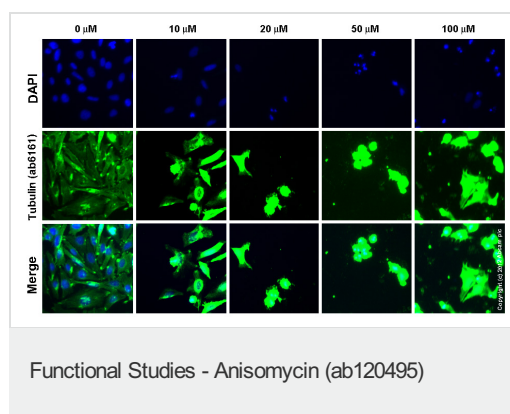
Applications

Our [Abpromise guarantee](#) covers the use of **ab120495** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



[ab6161](#) staining tubulin HeLa cells treated with anisomycin (ab120495), by ICC/IF. Increase in tubulin expression correlates with increased concentration of anisomycin as described in literature.

The cells were incubated at 37°C for 6h in media containing different concentrations of ab120495 (anisomycin) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with [ab6161](#) (5 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rat polyclonal antibody ([ab98386](#)) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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