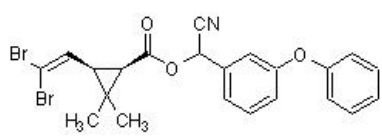


Product datasheet

Deltamethrin, protein phosphatase 2B inhibitor  
ab141019

2 References 1 Image

Overview

<b>Product name</b>	Deltamethrin, protein phosphatase 2B inhibitor
<b>Description</b>	Potent protein phosphatase 2B inhibitor
<b>Biological description</b>	Potent protein phosphatase 2B inhibitor (IC <sub>50</sub> = 0.03 nM). Induces neurotoxicity by slowing the opening and closing of Na <sup>+</sup> channels. Active <i>in vivo</i> .
<b>Purity</b>	> 98%
<b>CAS Number</b>	52918-63-5
<b>Chemical structure</b>	

Properties

<b>Chemical name</b>	(S)-Cyano-(3-phenoxyphenyl)methyl (1 <i>R</i> ,3 <i>R</i> )-3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropanecarboxylate
<b>Molecular weight</b>	505.21
<b>Molecular formula</b>	C <sub>22</sub> H <sub>19</sub> Br <sub>2</sub> NO <sub>3</sub>
<b>PubChem identifier</b>	40585
<b>Storage instructions</b>	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in DMSO to 100 mM and in ethanol to 10 mM
<b>Handling</b>	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 <a href="#">frequently asked questions (FAQ) page</a> for more details.

**SMILES**
Br/C(Br)=C/[C@H]3[C@@H](C(=O)O[C@H](C#N)c2cccc(Oc1ccccc1)c2)C3(C)C
**Source**

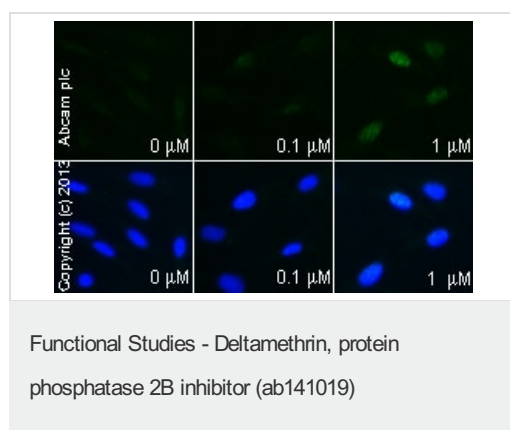
Synthetic

**Applications**

Our [Abpromise guarantee](#) covers the use of **ab141019** 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**

**ab11419** staining DDIT3 in SKNSH cells treated with deltamethrin (ab141019), by ICC/IF. Increase of DDIT3 expression correlates with increased concentration of deltamethrin, as described in literature.

The cells were incubated at 37°C for 48 hours in media containing different concentrations of ab141019 (deltamethrin) in DMSO, fixed with 100% methanol for 5 minutes at -20°C 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 **ab11419** (10 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-mouse polyclonal antibody (**ab96879**) 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. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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