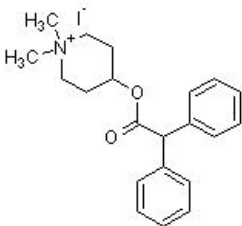


## Product datasheet

### 4-DAMP, Muscarinic receptor antagonist ab120144

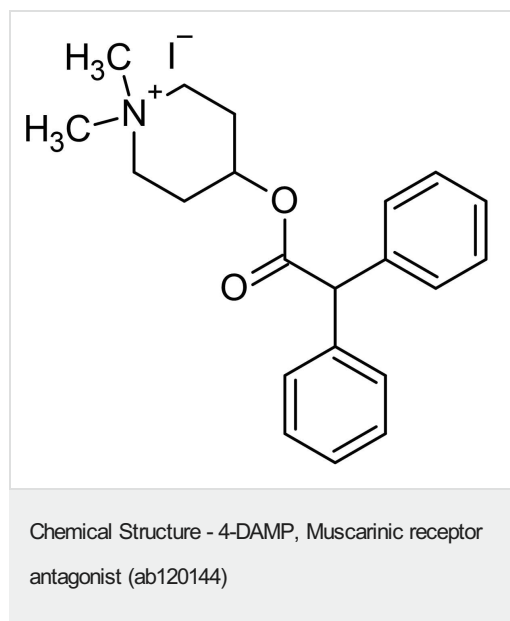
[4 References](#) [2 Images](#)

#### Overview

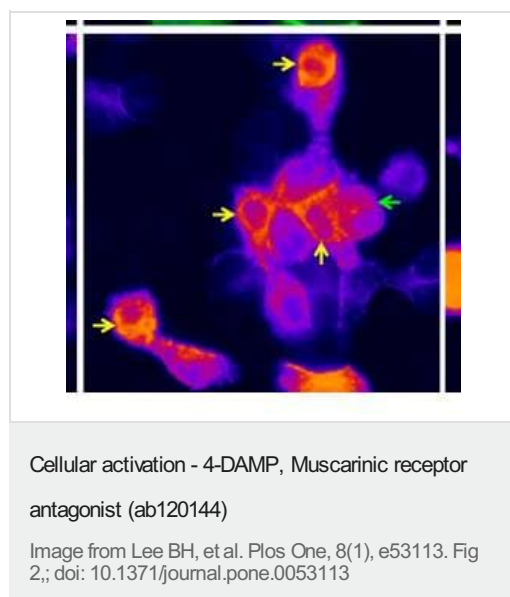
<b>Product name</b>	4-DAMP, Muscarinic receptor antagonist
<b>Description</b>	Muscarinic receptor antagonist
<b>Biological description</b>	Muscarinic antagonist. ( $K_i$ values for human receptors are 0.57 ( $M_1$ ), 7.3 ( $M_2$ ), 0.37 ( $M_3$ ), 0.72 ( $M_4$ ) and 0.55 nM ( $M_5$ )).
<b>CAS Number</b>	1952-15-4
<b>Chemical structure</b>	

#### Properties

<b>Chemical name</b>	4-Diphenylacetoxy- <i>N</i> -methylpiperidine methiodide
<b>Molecular weight</b>	451.35
<b>Molecular formula</b>	C <sub>21</sub> H <sub>26</sub> INO <sub>2</sub>
<b>PubChem identifier</b>	3014059
<b>Storage instructions</b>	Store at Room Temperature. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in DMSO to 100 mM and in ethanol to 25 mM
<b>Handling</b>	<p>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.</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
<b>SMILES</b>	[I-].O=C(OC1CC[N+](C)(C)CC1)C(c2ccccc2)c3ccccc3
<b>Source</b>	Synthetic



2D chemical structure image of ab120144, 4-DAMP, Muscarinic receptor antagonist



(A) rhAQP5 vector-transfected HSG cells were stimulated with CCh (100  $\mu$ M) in the presence or absence of 4-DAMP (10  $\mu$ M), prenzepine (10  $\mu$ M), and mixture of 4-DAMP and prenzepine (M3R or M1R specific antagonist, respectively).

(B) To monitor hAQP5 trafficking, original GFP pictures in (A) were converted into 'Fire' 3D LUT (lookup tables) setting in ImageJ software and only GFP signal above the fluorescent signal threshold (?80, red or yellow color in converted picture), was captured in (B) as positive GFP signal. Yellow arrows indicate the positive GFP signal on the membrane and green arrows indicates signal in the cytoplasm in HSG cells.

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