

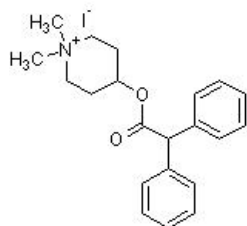
Product datasheet

4-DAMP, Muscarinic receptor antagonist ab120144

2 References 1 Image

Overview

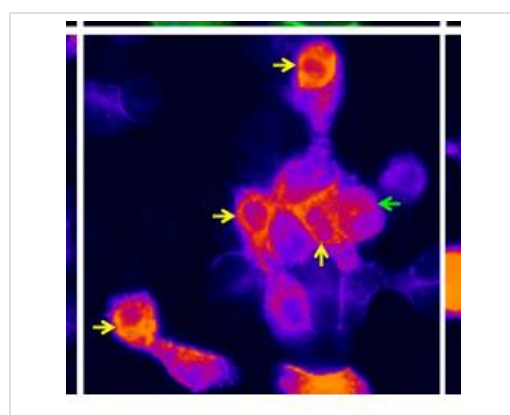
Product name	4-DAMP, Muscarinic receptor antagonist
Description	Muscarinic receptor antagonist
Biological description	Muscarinic antagonist. (K_i values for human receptors are 0.57 (M_1), 7.3 (M_2), 0.37 (M_3), 0.72 (M_4) and 0.55 nM (M_5)).
Purity	> 98%
CAS Number	1952-15-4
Chemical structure	



Properties

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

Images



Other - 4-DAMP, Muscarinic receptor antagonist
(ab120144)

Image from Lee BH, et al. Plos One, 8(1), e53113. Fig 2.; doi: 10.1371/journal.pone.0053113

(A) rhAQP5 vector-transfected HSG cells were stimulated with CCh (100 μ M) in the presence or absence of 4-DAMP (10 μ M), prenzepine (10 μ 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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