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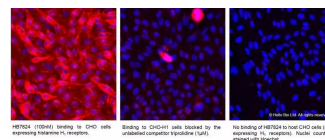
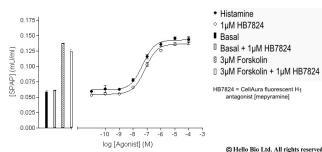
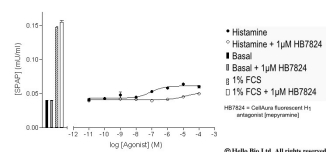
DATASHEET

CA200799 CellAura fluorescent H₁ antagonist [mepyramine]

Product overview

Name	CA200799 CellAura fluorescent H ₁ antagonist [mepyramine]
Cat No	HB7824
Biological description	Fluorescent H ₁ histamine receptor antagonist (apparent K _D values are 8.07, 5.37 and >6 for H ₁ , H ₂ and H ₃ receptors respectively). Also antagonizes the activity of Histamine, a H ₁ histamine receptor agonist. Displays no intrinsic activity. A fluorescent mepyramine analogue.
Alternative names	CA200799 H ₁ -BY633-AN Mempyramine-Bodipy630-650
Biological action	Antagonist
Purity	>97%
Description	Fluorescent H ₁ histamine receptor antagonist

Images



Biological Data

Application notes Pharmacological validation

For imaging at the H₁ receptor use solutions up to 100 nM.

The CellAura fluorescent H₁ antagonist [mepyramine] ligand was shown to antagonize the activity of the H₁ agonist, histamine, in the recombinant CHO cell line expressing the human H₁ receptor, co-transfected with a serum response element-induced secreted placental alkaline phosphatase (SPAP) reporter gene.

For the H₁ expressing cell line, the serum-induced expression of SPAP was measured under basal and 1% serum-stimulated (maximal) conditions.

Addition of CellAura fluorescent H₁ antagonist [mepyramine] to the basal or serum-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent H₁ antagonist [mepyramine] has no intrinsic agonist activity.

Application notes	<p>For imaging at the H₁ receptor use solutions up to 100 nM.</p> <p>To determine the apparent K_D for CellAura fluorescent H₁ antagonist [mepyramine] at histamine H₁ receptors, cells were treated with varying concentrations of histamine agonist alone, or in the presence of 1 μM CellAura fluorescent H₁ antagonist [mepyramine], and the serum-induced expression of SPAP measured. The apparent K_D at H₁ was calculated from the rightward shift of the agonist response curve in the presence of CellAura fluorescent H₁ antagonist [mepyramine], compared to the response curve for the agonist alone.</p> <p>Similar studies were conducted with the CellAura fluorescent H₁ antagonist [mepyramine] ligand using recombinant CHO cell lines expressing either the human H₂ receptor or the human H₃ receptor and a cyclic AMP-responsive secreted placental alkaline phosphatase (SPAP) reporter gene. The apparent K_D at H₂ was calculated in the same way to that calculated for the human H₁ receptor.</p>
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Solubility & Handling

Storage instructions	-20 °C (protect from light)
Solubility overview	Soluble in DMSO
Handling	After thawing individual aliquots for use, we recommend briefly sonicating the sample to ensure it is fully dissolved and the solution is homogeneous. We do not recommend using the product after subjecting it to repetitive freeze-thaw cycles.
Shipping conditions	The product, supplied in a dry form, is stable at ambient temperature for periods of up to a few days and does not require shipping on ice/dry ice.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	948
Source	Synthetic
Formulation	Lyophilized film
Excitation	633 nm
Emission	650 nm
Kit contents	test
