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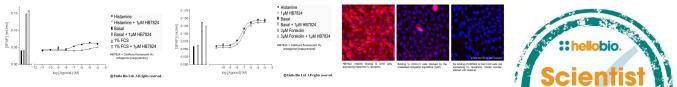
DATASHEET

CA200799 CellAura fluorescent H1 antagonist [mepyramine]

Product overview

Name Cat No	CA200799 CellAura fluorescent H1 antagonist [mepyramine] 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 H₁ histamine receptor antagonist
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Images







Biological Data

Application notes Pharmacological validation For imaging at the H_1 receptor use solutions up to 100 nM.

The CellAura fluorescent H_1 antagonist [mepyramine] ligand was shown to antagonize the activity of the H_1 agonist, histamine, in the recombinant CHO cell line expressing the human H_1 receptor, co-transfected with a serum response element-induced secreted placental alkaline phosphatase (SPAP) reporter gene.

For the H_1 expressing cell line, the serum-induced expression of SPAP was measured under basal and 1% serum-stimulated (maximal) conditions.

Addition of CellAura fluorescent H_1 antagonist [mepyramine] to the basal or serum-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent H_1 antagonist [mepyramine] has no intrinsic agonist activity.

To determine the apparent K_D for CellAura fluorescent H_1 antagonist [mepyramine] at histamine H_1 receptors, cells were treated with varying concentrations of histamine agonist alone, or in the presence of 1µM CellAura fluorescent H_1 antagonist [mepyramine], and the serum-induced expression of SPAP measured. The apparent K_D at H_1 was calculated from the rightward shift of the agonist response curve in the presence of CellAura fluorescent H_1 antagonist [mepyramine], compared to the response curve for the agonist alone.

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.

Solubility & Handling

Storage instructions Solubility overview Handling	-20°C (protect from light) Soluble in DMSO After thawing individual aliguots for use, we recommend briefly sonicating the sample to ensure it is
5	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	