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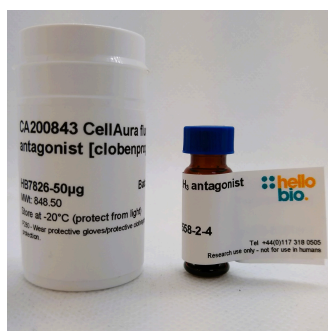
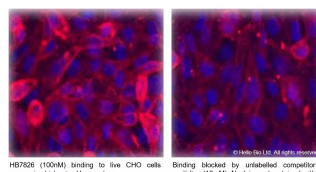
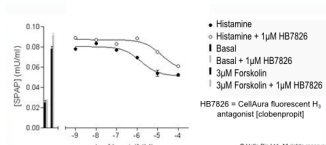
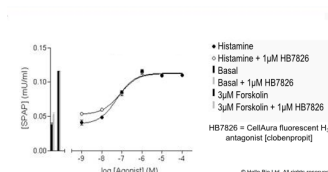
DATASHEET

CA200843 CellAura fluorescent H₃ antagonist [clobenpropit]

Product overview

Name	CA200843 CellAura fluorescent H ₃ antagonist [clobenpropit]
Cat No	HB7826
Biological description	Fluorescent H ₃ histamine receptor antagonist (apparent K _D values are 7.09, 6.55 and 5.71 for H ₃ , H ₁ and H ₂ receptors respectively). Also antagonizes the activity of Histamine, a H ₁ agonist. Displays no intrinsic activity.
Alternative names	CA200843 H ₃ -633-AN clo-BDY
Biological action	Antagonist
Purity	>95%
Description	Fluorescent H ₃ histamine receptor antagonist

Images



Biological Data

Application notes Pharmacological validation

For imaging at H₃, H₂ and H₁ receptors use solutions up to 100 nM.

The CellAura fluorescent H₃ antagonist [clobenpropit] ligand was shown to antagonize the activity of the agonist, histamine, in a recombinant CHO cell line expressing the human H₃ receptor and a cyclic AMP-responsive secreted placental alkaline phosphatase (SPAP) reporter gene, and in similar cell lines expressing either the human H₂ or H₁ receptors. For the H₃, H₂ and H₁ expressing cell lines, the cyclic AMP-induced expression of SPAP was measured under basal and forskolin-stimulated (maximal) conditions. Addition of CellAura fluorescent H₃ antagonist [clobenpropit] to the basal or forskolin-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent H₃ antagonist [clobenpropit] has no intrinsic agonist activity. To determine the apparent KD for CellAura fluorescent H₃ antagonist [clobenpropit] at histamine H₃, H₂ and H₁ receptors, cells were treated with varying concentrations of histamine agonist alone, or in the presence of 1µM CellAura fluorescent H₃ antagonist [clobenpropit], and the cyclic AMP-induced expression of SPAP measured. The apparent KD at H₃, H₂ and H₁ was calculated from the rightward shift of the

agonist response curve in the presence of CellAura fluorescent H₃ antagonist [clobenpropit], compared to the response curve for the agonist alone.

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	848.5
Source	Synthetic
Formulation	Lyophilized film
Excitation	633 nm
Emission	650 nm
