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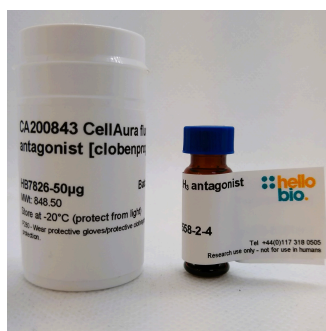
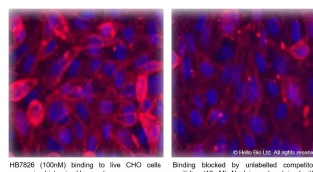
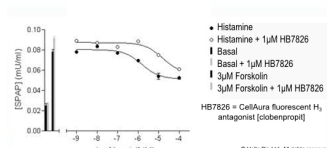
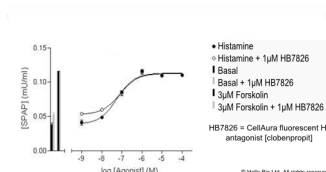
## DATASHEET

CA200843 CellAura fluorescent H<sub>3</sub> antagonist [clobenpropit]

### Product overview

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

### Images



### Biological Data

#### Application notes Pharmacological validation

For imaging at H<sub>3</sub>, H<sub>2</sub> and H<sub>1</sub> receptors use solutions up to 100 nM.

The CellAura fluorescent H<sub>3</sub> antagonist [clobenpropit] ligand was shown to antagonize the activity of the agonist, histamine, in a recombinant CHO cell line expressing the human H<sub>3</sub> receptor and a cyclic AMP-responsive secreted placental alkaline phosphatase (SPAP) reporter gene, and in similar cell lines expressing either the human H<sub>2</sub> or H<sub>1</sub> receptors. For the H<sub>3</sub>, H<sub>2</sub> and H<sub>1</sub> expressing cell lines, the cyclic AMP-induced expression of SPAP was measured under basal and forskolin-stimulated (maximal) conditions. Addition of CellAura fluorescent H<sub>3</sub> antagonist [clobenpropit] to the basal or forskolin-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent H<sub>3</sub> antagonist [clobenpropit] has no intrinsic agonist activity. To determine the apparent KD for CellAura fluorescent H<sub>3</sub> antagonist [clobenpropit] at histamine H<sub>3</sub>, H<sub>2</sub> and H<sub>1</sub> receptors, cells were treated with varying concentrations of histamine agonist alone, or in the presence of 1µM CellAura fluorescent H<sub>3</sub> antagonist [clobenpropit], and the cyclic AMP-induced expression of SPAP measured. The apparent KD at H<sub>3</sub>, H<sub>2</sub> and H<sub>1</sub> was calculated from the rightward shift of the

agonist response curve in the presence of CellAura fluorescent H<sub>3</sub> antagonist [clobenpropit], compared to the response curve for the agonist alone.

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## Solubility & Handling

<b>Storage instructions</b>	-20 °C (protect from light)
<b>Solubility overview</b>	Soluble in DMSO
<b>Handling</b>	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.
<b>Shipping conditions</b>	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.
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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## Chemical Data

<b>Molecular Weight</b>	848.5
<b>Source</b>	Synthetic
<b>Formulation</b>	Lyophilized film
<b>Excitation</b>	633 nm
<b>Emission</b>	650 nm

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