Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

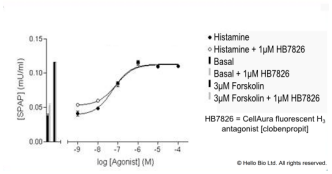
DATASHEET

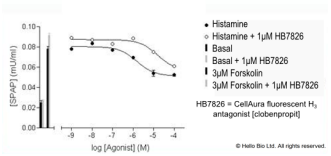
CA200843 CellAura fluorescent H_3 antagonist [clobenpropit]

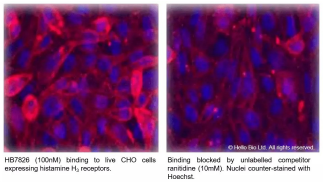
Product overview

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






HB7826 (100nM) binding to live CHO cells expressing histamine H_3 receptors.

Binding blocked by unlabelled competitor ranitidine (10mM). Nuclei counter-stained with Hoechst.

Biological Data

Application notes	For imaging at H_3, H_2 and H_1 receptors use solutions up to 100 nM.
Pharmacological validation	The CellAura fluorescent H_3 antagonist [clobenpropit] ligand was shown to antagonize the activity of the agonist, histamine, in a recombinant CHO cell line expressing the human H_3 receptor and a cyclic AMP-responsive secreted placental alkaline phosphatase (SPAP) reporter gene, and in similar cell lines expressing either the human H_2 or H_1 receptors. For the H_3, H_2 and H_1 expressing cell lines, the cyclic AMP-induced expression of SPAP was measured under basal and forskolin-stimulated (maximal) conditions. Addition of CellAura fluorescent H_3 antagonist [clobenpropit] to the basal or forskolin-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent H_3 antagonist [clobenpropit] has no intrinsic agonist activity. To determine the apparent KD for CellAura fluorescent H_3 antagonist [clobenpropit] at histamine H_3, H_2 and H_1 receptors, cells were treated with varying concentrations of histamine agonist alone, or in the presence of 1µM CellAura fluorescent H_3 antagonist [clobenpropit], and the cyclic AMP-induced expression of SPAP measured. The apparent KD at H_3, H_2 and H_1 was calculated from the rightward shift of the

agonist response curve in the presence of CellAura fluorescent H_3 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
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
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	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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