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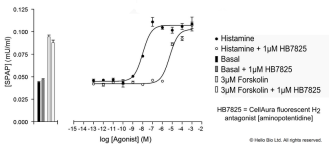
DATASHEET

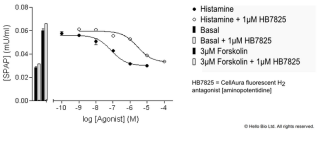
CA200821 CellAura fluorescent H_2 antagonist [aminopotentidine]

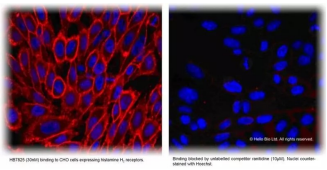
Product overview

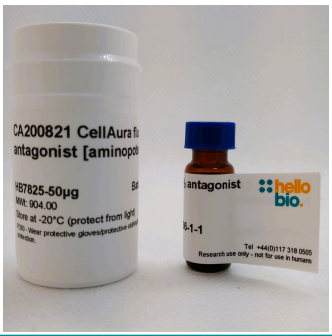
Name	CA200821 CellAura fluorescent H_2 antagonist [aminopotentidine]
Cat No	HB7825
Biological description	Fluorescent H_2 histamine receptor antagonist (apparent K_D values are 8.94, 7.3 and >6 for H_2, H_3 and H_1 receptors respectively). Also antagonizes the activity of Histamine, a H_1 agonist. Displays no intrinsic activity.
Alternative names	CA200821|H_2-633-AN
Biological action	Antagonist
Purity	>97%
Description	Fluorescent H_2 histamine receptor antagonist

Images









Biological Data

Application notes	For imaging at the H_2 or H_3 receptor use solutions up to 100 nM.
Pharmacological validation	The CellAura fluorescent H_2 antagonist [aminopotentidine] ligand was shown to antagonize the activity of the agonist, histamine, in a recombinant CHO cell line expressing the human H_2 receptor and a cyclic AMP-responsive secreted placental alkaline phosphatase (SPAP) reporter gene, and in a similar cell line expressing the human H_3 receptor. No antagonist activity of the CellAura fluorescent H_2 antagonist [aminopotentidine] ligand was detected at the highest concentration tested in a recombinant cell line expressing human H_1 receptor provided by Applied Cell Sciences (Rockville, MD 20850, USA. Catalogue number: A665). For the H_2 and H_3 expressing cell lines, the cyclic AMP-induced expression of SPAP was measured under basal and forskolin-stimulated (maximal) conditions. Addition of CellAura fluorescent H_2 antagonist [aminopotentidine] to the basal or forskolin-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent H_2 antagonist [aminopotentidine] has no intrinsic agonist activity. To determine the apparent KD for CellAura fluorescent H_2 antagonist [aminopotentidine] at histamine H_2 and H_3 receptors, cells were

Application notes	For imaging at the H_2 or H_3 receptor use solutions up to 100 nM. treated with varying concentrations of histamine agonist alone, or in the presence of 1μM CellAura fluorescent H_2 antagonist [aminopotentidine], and the cyclic AMP-induced expression of SPAP measured. The apparent KD at H_2 and H_3 was calculated from the rightward shift of the agonist response curve in the presence of CellAura fluorescent H_2 antagonist [aminopotentidine], 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	904
Source	Synthetic
Formulation	Lyophilized film
Excitation	633 nm
Emission	650 nm