

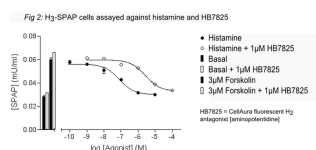
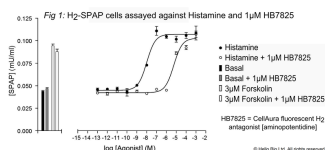
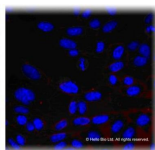
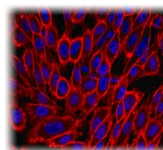
DATASHEET

CA200821 CellAura fluorescent H₂ antagonist [aminopotentialidine]

Product overview

Name	CA200821 CellAura fluorescent H ₂ antagonist [aminopotentialidine]
Cat No	HB7825
Description	Fluorescent H ₂ histamine receptor antagonist
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%

Images



Biological Data

Application notes Pharmacological validation

For imaging at the H₂ or H₃ receptor use solutions up to 100 nM. The CellAura fluorescent H₂ antagonist [aminopotentialidine] ligand was shown to antagonize the activity of the agonist, histamine, in a recombinant CHO cell line expressing the human H₂ receptor and a cyclic AMP-responsive secreted placental alkaline phosphatase (SPAP) reporter gene, and in a similar cell line expressing the human H₃ receptor. No antagonist activity of the CellAura fluorescent H₂ antagonist [aminopotentialidine] ligand was detected at the highest concentration tested in a recombinant cell line expressing human H₁ receptor provided by Applied Cell Sciences (Rockville, MD 20850, USA. Catalogue number: A665). For the H₂ and H₃ expressing cell lines, the cyclic AMP-induced expression of SPAP was measured under basal and forskolin-stimulated (maximal) conditions. Addition of CellAura fluorescent H₂ antagonist [aminopotentialidine] to the basal or forskolin-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent H₂ antagonist [aminopotentialidine] has no intrinsic agonist activity. To determine the apparent K_D for CellAura fluorescent H₂ antagonist [aminopotentialidine] at histamine H₂ and H₃ receptors, cells were treated with varying concentrations of histamine agonist alone, or in the presence of 1 μ M CellAura fluorescent H₂ antagonist [aminopotentialidine], and the cyclic AMP-induced expression of SPAP measured. The apparent K_D at H₂ and H₃ was calculated from the rightward shift of the agonist response curve in the presence of CellAura fluorescent H₂ antagonist [aminopotentialidine], compared to the response curve for the agonist alone.

Solubility & Handling

Storage instructions

-20°C (protect from light)

**Solubility overview
Handling**

Soluble in DMSO

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
