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DATASHEET

CA200821 CellAura fluorescent H₂ antagonist [aminopotentidine]

Product overview

Name CA200821 CellAura fluorescent H₂ antagonist [aminopotentidine]

Cat No HB7825

Biological description Fluorescent H₂ histamine receptor antagonist (apparent K_D values are 8.94, 7.3 and >6 for H₂, H₃ and

H₁ receptors respectively). Also antagonizes the activity of Histamine, a H₁ agonist. Displays no

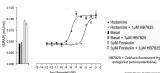
intrinsic activity.

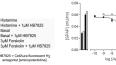
Alternative names CA200821|H₂-633-AN

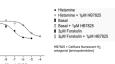
Biological action Antagonist Purity >97%

Description Fluorescent H₂ histamine receptor antagonist

Images















Biological Data

Application notes
Pharmacological validation

For imaging at the H_2 or H_3 receptor use solutions up to 100 nM.

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

treated with varying concentrations of histamine agonist alone, or in the presence of $1\mu M$ 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

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

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 Weight904SourceSyntheticFormulationLyophilized filmExcitation633 nmEmission650 nm