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DATASHEET

CA200843 CellAura fluorescent H₃ antagonist [clobenpropit]

Product overview

Name CA200843 CellAura fluorescent H₃ 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 H₂ receptors respectively). Also antagonizes the activity of Histamine, a H₁ agonist. Displays no

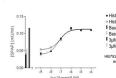
intrinsic activity.

Alternative names CA200843 | H₃-633-AN | clo-BDY

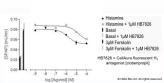
Biological action Antagonist >95%

Description Fluorescent H₃ histamine receptor antagonist

Images















Biological Data

Application notes
Pharmacological validation

For imaging at H₃, H₂ and H₁ receptors use solutions up to 100 nM.

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 1μ M 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

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 Weight848.5SourceSyntheticFormulationLyophilized filmExcitation633 nmEmission650 nm