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DATASHEET

CA200887 CellAura fluorescent M₃ antagonist [pirenzepine]

Product overview

Name CA200887 CellAura fluorescent M₃ antagonist [pirenzepine]

Cat No HB7827

Biological description Fluorescent M₃ muscarinic receptor antagonist (apparent K_D values are 7.97, 6.29 and 6.24 for M₃, M₅

and M₁ receptors respectively). Antagonizes the activity of carbachol, a muscarinic receptor agonist.

Displays no intrinsic activity.

Alternative names CA200887|M₃-633-AN

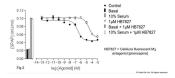
Biological action PurityAntagonist
>97%

Description Fluorescent M₃ muscarinic receptor antagonist

Images









Biological Data

Application notes
Pharmacological validation

For imaging at the M₃ receptor use solutions up to 100 nM.

The CellAura fluorescent M_3 antagonist [pirenzepine] ligand was shown to antagonize the activity of the muscarinic agonist, carbachol, in a recombinant CHO cell line expressing the human M_3 receptor and a serum-responsive secreted placental alkaline phosphatase (SPAP) reporter gene. The serum-induced expression of SPAP was measured under basal and serum-stimulated (maximal) conditions. Addition of CellAura fluorescent M_3 antagonist [pirenzepine] to the basal or serum-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent M_3 antagonist [pirenzepine] has no intrinsic agonist activity. To determine the apparent KD for CellAura fluorescent M_3 antagonist [pirenzepine], cells were treated with varying concentrations of carbachol alone, or in the presence of $1\mu M$ CellAura fluorescent M_3 antagonist [pirenzepine], and the serum-induced expression of SPAP measured. The apparent KD was calculated from the rightward shift of the agonist response curve in the presence of CellAura fluorescent M_3 antagonist [pirenzepine], compared to the response curve for the agonist alone.

Solubility & Handling

Storage instructions Solubility overview Storage of solutions -20°C (protect from light) Soluble in DMSO

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. 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

Handling

Shipping Conditions Important

subjecting it to repetitive freeze-thaw cycles.

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 Weight1014SourceSyntheticFormulationLyophilized filmExcitation633 nmEmission650 nm