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DATASHEET

CA200887 CellAura fluorescent M₃ antagonist [pirenzepine]

Product overview

CA200887 CellAura fluorescent M₃ antagonist [pirenzepine] 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 Antagonist >97% Fluorescent M₃ muscarinic receptor antagonist

Images

Description

Biological action

Name

Purity

Cat No





CA200887	CellAura	flux 👖		
intagonist	[pirenze	pine)		
187827-50µg		Batt		
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Biological Data

Application notes Pharmacological validation For imaging at the M₃ receptor use solutions up to 100 nM.

The CellAura fluorescent M₃ antagonist [pirenzepine] ligand was shown to antagonize the activity of the muscarinic agonist, carbachol, in a recombinant CHO cell line expressing the human M₃ receptor and a serum-responsive secreted placental alkaline phosphatase (SPAP) reporter gene. The seruminduced expression of SPAP was measured under basal and serum-stimulated (maximal) conditions. Addition of CellAura fluorescent M₃ 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 M₃ antagonist [pirenzepine], cells were treated with varying concentrations of carbachol alone, or in the presence of 1µM CellAura fluorescent M₃ antagonist [pirenzepine], and the seruminduced expression of SPAP measured. The apparent KD was calculated from the rightward shift of the agonist response curve in the presence of CellAura fluorescent M₃ antagonist [pirenzepine], compared to the response curve for the agonist alone.

Solubility & Handling

Storage instructions Solubility overview Handling

-20°C (protect from light) 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

Important

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. 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
Source
Formulation
Excitation
Emission

1014 Synthetic Lyophilized film 633 nm 650 nm