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DATASHEET

CA200693 CellAura fluorescent β₂ antagonist [(S)-propranolol-green]

Product overview

Name Cat No

Biological description

Description

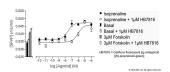
 $CA200693 \ Cell Aura \ fluorescent \ \beta_2 \ antagonist \ [(S)-propranolol-green]$

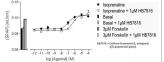
HB7816

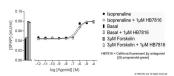
Fluorescent β₂-adrenoceptor antagonist (apparent K_D values are 7.68, 6.42 and 95%

Fluorescent β₂-adrenoceptor antagonist

Images















Biological Data

Application notes
Pharmacological validation

For imaging at β_1 / β_2 / β_3 adrenoceptors use solutions up to 100 nM.

The CellAura fluorescent $\beta 2$ antagonist [(S)-propranolol-green] ligand was shown to antagonize the activity of the non-selective β agonist, isoprenaline, in three separate recombinant CHO cell lines expressing either the human β_1 , β_2 or β_3 receptor and a cyclic AMP-responsive secreted placental alkaline phosphatase (SPAP) reporter gene. The cyclic AMP-induced expression of SPAP was measured under basal and forskolin-stimulated (maximal) conditions. Addition of CellAura fluorescent $\beta 2$ antagonist [(S)-propranolol-green] to the basal or forskolin-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent $\beta 2$ antagonist [(S)-propranolol-green] has no intrinsic agonist activity at either β_1 , β_2 or β_3 receptors. To determine the apparent KD for CellAura fluorescent $\beta 2$ antagonist [(S)-propranolol-green] at β_1 , β_2 and β_3 receptors, cells were treated with varying concentrations of isoprenaline alone, or in the presence of $1\mu M$ CellAura fluorescent $\beta 2$ antagonist [(S)-propranolol-green], and the cyclic AMP-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 $\beta 2$ antagonist [(S)-propranolol-green], compared to the response curve for the agonist alone, for β_1 , β_2 and β_3 receptor expressing cell lines.

Solubility & Handling

Storage instructions Solubility overview -20°C (protect from light) 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 Weight736SourceSyntheticFormulationLyophilized filmExcitation488 nmEmission525 / 550nm