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DATASHEET

CA200656 CellAura fluorescent β₂ antagonist [(±)-propranolol]

Product overview

Name CA200656 CellAura fluorescent β₂ antagonist [(±)-propranolol]

Cat No HB7820

Biological description Fluorescent adrenoceptor β_2 antagonist (apparent K_D values are 8.87, 7.25 and 6.98 for β_2 , β_1 and β_3

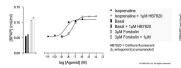
respectively). Antagonizes the activity of isoprenaline, a non-selective β-adrenoceptor agonist.

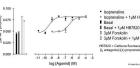
Alternative names $CA200656|\beta_2-633-AN|$

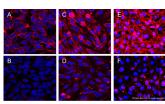
Biological action Antagonist **Purity** >97%

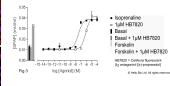
Description Fluorescent β_2 adrenoceptor antagonist

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 β_2 antagonist [(\pm)-propranolol] 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. To determine the apparent KD for CellAura fluorescent β_2 antagonist [(\pm)-propranolol] at β_1 , β_2 and β_3 receptors, cells were treated with varying concentrations of isoprenaline alone, or in the presence of 1 μ M CellAura fluorescent β_2 antagonist [(\pm)-propranolol], 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 β_2 antagonist [(\pm)-propranolol], compared to the response curve for the agonist alone, for β_1 , β_2 and β_3 receptor expressing cell lines. The ACS β_2 adrenoceptor CHO-K1 cell line was also transfected with the cAMP-responsive SPAP reporter construct and tested for its functional response to varying concentrations of isoprenaline alone, or in the presence of 1 μ M CellAura fluorescent β_2 antagonist [(\pm)-propranolol].

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

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 Weight 834

Formulation Lyophilized film Excitation 633 nm Emission 650 nm