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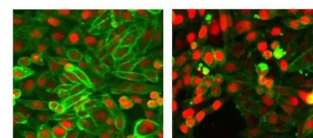
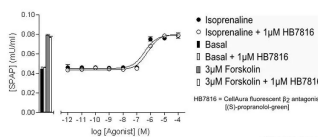
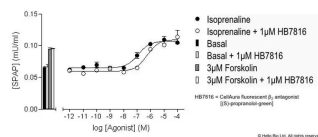
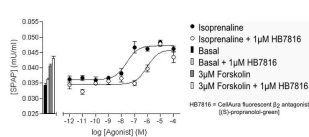
## DATASHEET

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

### Product overview

<b>Name</b>	CA200693 CellAura fluorescent $\beta_2$ antagonist [(S)-propranolol-green]
<b>Cat No</b>	HB7816
<b>Biological description</b>	Fluorescent $\beta_2$ -adrenoceptor antagonist (apparent $K_D$ values are 7.68, 6.42 and 95%
<b>Description</b>	Fluorescent $\beta_2$ -adrenoceptor antagonist

### Images



### Biological Data

#### Application notes Pharmacological validation

For imaging at  $\beta_1$  /  $\beta_2$  /  $\beta_3$  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  $\beta$  agonist, isoprenaline, in three separate recombinant CHO cell lines expressing either the human  $\beta_1$ ,  $\beta_2$  or  $\beta_3$  receptor and a cyclic AMP-recombinant 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  $\beta_1$ ,  $\beta_2$  or  $\beta_3$  receptors. To determine the apparent  $K_D$  for CellAura fluorescent  $\beta_2$  antagonist [(S)-propranolol-green] at  $\beta_1$ ,  $\beta_2$  and  $\beta_3$  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  $K_D$  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  $\beta_1$ ,  $\beta_2$  and  $\beta_3$  receptor expressing cell lines.

### 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

Storage instructions	-20 °C (protect from light) 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.

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## Chemical Data

Molecular Weight	736
Source	Synthetic
Formulation	Lyophilized film
Excitation	488 nm
Emission	525 / 550nm

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