

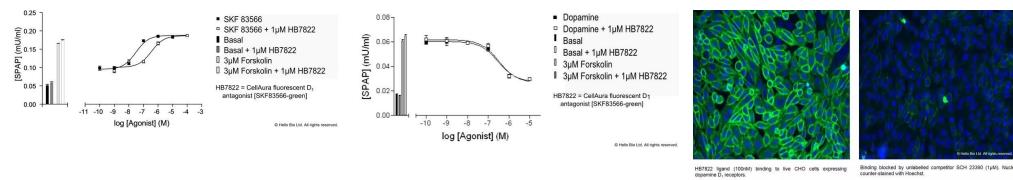
DATASHEET

CA200773 CellAura fluorescent D₁ antagonist [SKF83566-green]

Product overview

Name	CA200773 CellAura fluorescent D ₁ antagonist [SKF83566-green]
Cat No	HB7822
Biological description	Selective fluorescent D ₁ dopamine receptor antagonist (apparent K _D values are 7.09, 1, D ₂ and D ₅ receptors respectively). Also antagonizes the activity of SKF 83566, a D ₁ dopamine receptor agonist. Displays no intrinsic agonist activity.
Alternative names	CA200773
Biological action	Antagonist
Purity	>97%
Description	Fluorescent D ₁ dopamine receptor antagonist

Images



Biological Data

Application notes

Pharmacological validation

For imaging at the D₁ receptor use solutions up to 100 nM.

The CellAura fluorescent D₁ antagonist [SKF83566-green] ligand was shown to antagonize the activity of the D₁ agonist, SKF 83566, in a recombinant CHO cell line expressing the human D₁ 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 D₁ antagonist [SKF83566-green] to the basal or forskolin-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent D₁ antagonist [SKF83566-green] has no intrinsic agonist activity. To determine the apparent K_D for CellAura fluorescent D₁ antagonist [SKF83566-green], cells were treated with varying concentrations of SKF 83566 alone, or in the presence of 1 μM CellAura fluorescent D₁ antagonist [SKF83566-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 D₁ antagonist [SKF83566-green], compared to the response curve for the agonist

Application notes

For imaging at the D₁ receptor use solutions up to 100 nM. alone.

Solubility & Handling

Storage instructions

-20 °C (protect from light)

Solubility overview

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 Weight

877

Source

Synthetic

Formulation

Lyophilized film

Excitation

488 nm

Emission

525 / 550 nm
