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DATASHEET

CA200773 CellAura fluorescent D₁ antagonist [SKF83566-green]

Product overview

Name CA200773 CellAura fluorescent D₁ antagonist [SKF83566-green]

Cat No HB7822

Biological description Selective fluorescent D₁ dopamine receptor antagonist (apparent K_D values are 7.09, 1, D₂ and D₅

receptors respectively). Also antagonizes the activity of SKF 83566, a D₁ dopamine receptor agonist.

Displays no intrinsic agonist activity.

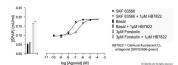
Alternative names CA200773

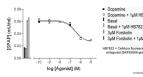
Biological action Antagonist

Purity >97%

Description Fluorescent D₁ dopamine receptor antagonist

Images













Biological Data

Application notes
Pharmacological validation

For imaging at the D_1 receptor use solutions up to 100 nM.

The CellAura fluorescent D_1 antagonist [SKF83566-green] ligand was shown to antagonize the activity of the D_1 agonist, SKF 83566, in a recombinant CHO cell line expressing the human D_1 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 D_1 antagonist [SKF83566-green] to the basal or forskolin-stimulated cells did not significantly alter basal and stimulated SPAP levels, demonstrating that CellAura fluorescent D_1 antagonist [SKF83566-green] has no intrinsic agonist activity. To determine the apparent KD for CellAura fluorescent D_1 antagonist [SKF83566-green], cells were treated with varying concentrations of SKF 83566 alone, or in the presence of 1μ M CellAura fluorescent D_1 antagonist [SKF83566-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 D_1 antagonist [SKF83566-green], compared to the response curve for the agonist

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 Weight877SourceSyntheticFormulationLyophilized filmExcitation488 nmEmission525 / 550 nm