Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

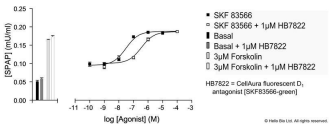
DATASHEET

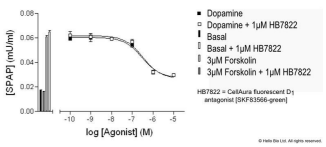
CA200773 CellAura fluorescent D_1 antagonist [SKF83566-green]

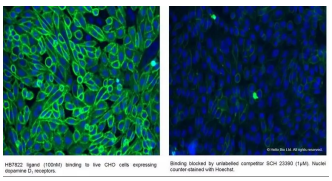
Product overview

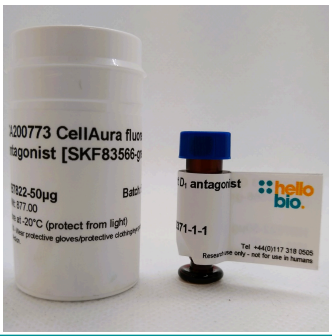
Name	CA200773 CellAura fluorescent D_1 antagonist [SKF83566-green]
Cat No	HB7822
Biological description	Selective fluorescent D_1 dopamine receptor antagonist (apparent K_D values are 7.09, $_1$, D_2 and D_5 receptors respectively). Also antagonizes the activity of SKF 83566, a D_1 dopamine receptor 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	For imaging at the D_1 receptor use solutions up to 100 nM.
Pharmacological validation	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 1µM 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

alone.

Solubility & Handling

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	877
Source	Synthetic
Formulation	Lyophilized film
Excitation	488 nm
Emission	525 / 550 nm