abcam

Product datasheet

Mepyramine Fluorescent ligand (Red) ab118174

画像数 3

製品の概要

製品名	Mepyramine Fluorescent ligand (Red)
製品の詳細	Fluorescent H_1 antagonist
生理活性の詳細	Fluorescent H_1 antagonist (pK_D values are 8.07 and 5.7 at H_1 and H_2 respectively). No intrinsic agonist activity seen in vitro. Wide range of applications which include localizing receptor distribution in tissues and cells, and live-cell imaging of receptor kinetics. Excitation wavelength: 633 nm Emission wavelength: 650 nm
精製度	> 97%

製品の特性

ファーマコフォア	Mepyramine-derivative
選択性	H1: 8.07 | H2: 5.37 | H3: >6
励起波長	633nm
蛍光波長	650nm
分子量	948.00
分子式	$C_{51}H_{60}N_7O_6F_2BS$
バリデーション情報	To determine the K_D for ab118174 at histamine H_1 receptors, cells were treated with concentrations of histamine agonist alone, or in the presence of 1 µM ab118174, and the serum-induced expression of SPAP measured. The K_D at H_1 was calculated from the shift of the agonist response curve in the presence of ab118174, compared to the response curve for the agonist alone. Similar studies were conducted with the ab118174 ligand using a recombinant CHO cell line expressing the Human H_2 receptor and a cyclic AMP-responsive SPAP reporter gene. The K_D at H_2 was calculated in the same way .
保存方法	Store at -20°C. Avoid exposure to light.
使用に関する注意	For imaging at the H_1 receptor use solutions up to 100 nM in DMSO.

アプリケーション

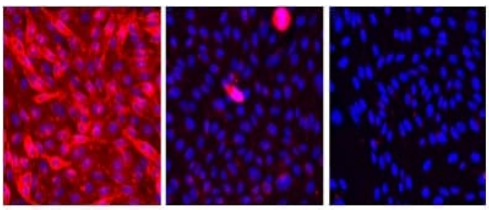
アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab118174の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

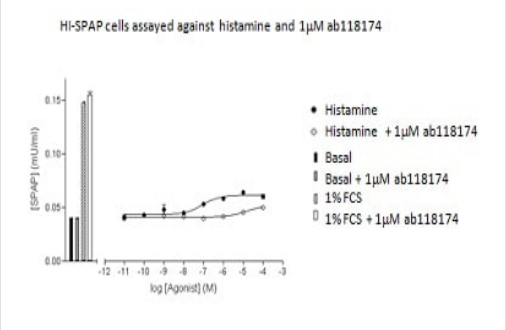
アプリケーション	Abreviews	特記事項
Fluorescent Cell Imaging		Use at an assay dependent concentration.
Small Molecule Fluorescent Optical Detection		Use at an assay dependent concentration.
Receptor Localization		Use at an assay dependent concentration.

画像



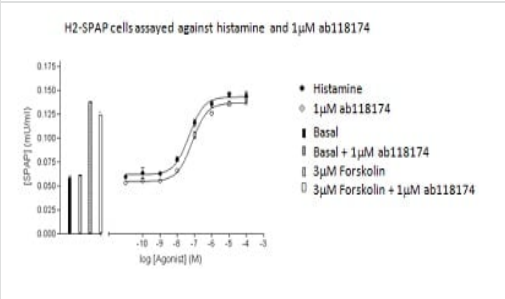
Receptor Localization - Mepyramine Fluorescent ligand (Red) (ab118174)

Left: ab118174 ligand (100 nM) binding to CHO cells expressing histamine H_1 receptors. Center: Binding to CHO-H_1 cells blocked by the unlabelled competitor triprolidine (1 µM). Right: No binding of ab118174 to host CHO cells (not expressing H_1 receptors). Nuclei have been counter-stained with Hoechst.



Small Molecule Fluorescent Optical Detection - Mepyramine Fluorescent ligand (Red) (ab118174)

To determine the apparent KD for ab118174 at histamine H1 receptors, cells were treated with varying concentrations of histamine agonist alone, or in the presence of 1 µM ab118174, and the serum-induced expression of SPAP measured. The apparent KD at H1 was calculated from the rightward shift of the agonist response curve in the presence of ab118174, compared to the response curve for the agonist alone. KD value for H1 = 8.07 Antagonist –log KD values



Small Molecule Fluorescent Optical Detection - Mepyramine Fluorescent ligand (Red) (ab118174)

The KD for ab118174 ligand was assessed using a recombinant CHO cell line expressing the Human H_2 receptor and a cyclic AMP-responsive SPAP reporter gene. The apparent KD at H_2 was calculated in the same way to that calculated for the Human H_1 receptor. The KD value for H_2 was found to be 5.37 Antagonist -log KD

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