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Product Information

Fluorescent Histamine H1 receptor Antagonist (H1-BY633-AN)

Catalog Number **SML0166**
Storage Temperature –20 °C

Synonym: Mepyramine-derivative

Product Description
Molecular formula: $C_{51}H_{60}BF_2N_7O_6S$
Molecular weight: 947.94

This fluorescent ligand may be used for imaging of H_1 receptors in cells. It has been validated as an antagonist at H_1receptors.

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

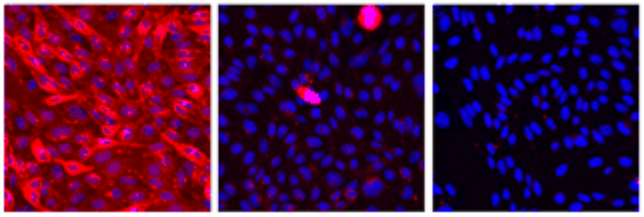
Preparation Instructions
Dissolve 0.2 mg of SML0166 in 21.1 µL of DMSO to give a 10 mM stock solution.

Once reconstituted into DMSO, aliquot the solution and store at –20 °C.

Storage/Stability
The product, as supplied, is stable at ambient temperature for periods of up to a few days and does not require shipping on ice/dry ice.
Once received, protect from light and store at –20 °C.

Procedure
For imaging H_1 receptors use ligand concentrations up to 100 nM. Excite the bound ligand using a 633 nm laser-line and use a 650 nm filter-set to observe fluorescent emission.

Results
Figure 1.
Receptor Binding and Displacement of H1-BY633-AN



Left – The H1-BY633-AN ligand (100 nM) binding to CHO cells expressing histamine H1 receptors.

Center – Binding to CHO-H1 cells blocked by the unlabelled competitor triprolidine (1µM).

Right – No binding of the H1-BY633-AN to host CHO cells (not expressing H1 receptors).

Nuclei have been counterstained with Hoechst dye.

JB,PHC 07/12-1