

Product Information

Fluorescent Histamine H₃/H₄ Receptor Antagonist (H3-633-AN)

Catalog Number **SML0168**
Storage Temperature -20°C

Synonym: Clobenpropit-derivative

Product Description

Molecular formula: $\text{C}_{44}\text{H}_{48}\text{BF}_2\text{N}_8\text{O}_3\text{S}_2$
Molecular weight: 849.84

This fluorescent ligand may be used for imaging of H₃ receptors in cells. It has been validated as an antagonist at H₃ receptors.

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 SML0168 in 23.5 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 .

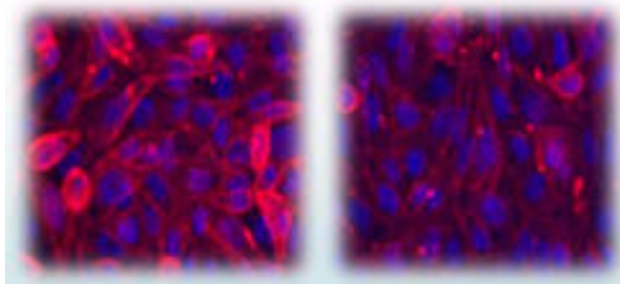
Procedure

For imaging H₃ 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 H3-633-AN



Left – The H3-633-AN ligand (100 nM) binding to live CHO cells expressing histamine H₃ receptors.

Right – Binding of the H3-633-AN ligand blocked by the unlabeled competitor ranitidine (10 μM).

Nuclei have been counterstained with Hoechst dye.

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