3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

Fluorescent 5HT-1A receptor Antagonist (5HT1A-633-AN2)

Catalog Number **SML0170**
Storage Temperature –20 °C

Synonym: NAN-190-derivative

Product Description
Molecular formula: $C_{55}H_{59}BF_2N_8O_7S$
Molecular weight: 1024.98

This fluorescent ligand may be used for imaging at the 5HT1A receptors. It has been validated as an antagonist to the 5-HT1A agonist.

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.

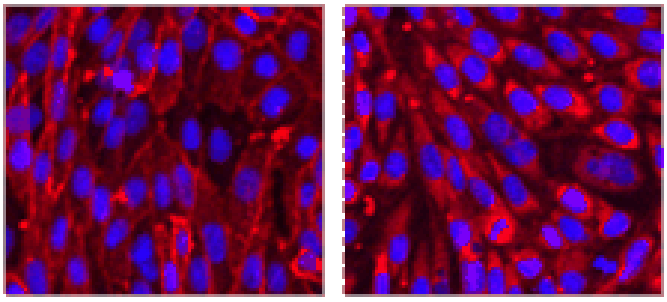
Preparation Instructions
Dissolve 0.2 mg of SML0163 in 19.5 µL of DMSO to give a 10 mM stock solution.

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 of the 5-HT1A receptor use ligand concentrations up to 200 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 5HT1A-633-AN2



Left – The 5HT1A-633-AN2 ligand (100 nM) binding to live CHO cells expressing serotonergic 5-HT1A receptors.

Right – Binding of the 5HT1A-633-AN2 ligand blocked by the unlabeled competitor WAY-100635 (10 µM).

Nuclei have been counterstained with Hoechst dye.

JB,PHC 07/12-1