

## Product Information

### Fluorescent GABA-B receptor Antagonist (GB-633-AN)

Catalog Number **SML0165**  
Storage Temperature  $-20^{\circ}\text{C}$

Synonym: CGP-54626A-derivative

#### Product Description

Molecular formula:  $\text{C}_{45}\text{H}_{53}\text{N}_5\text{O}_6\text{PCl}_2\text{F}_2\text{BS}$   
Molecular weight: 942.68

This fluorescent ligand may be used for imaging of GABA- $\beta_1/\beta_2$  receptors in cells. It has been validated as an antagonist at GABA- $\beta_1/\beta_2$  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 SML0165 in 21.2  $\mu\text{L}$  of DMSO to give a 10 mM stock solution.

Once reconstituted into DMSO, aliquot the solution and store at  $-20^{\circ}\text{C}$ .

#### 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  $-20^{\circ}\text{C}$ .

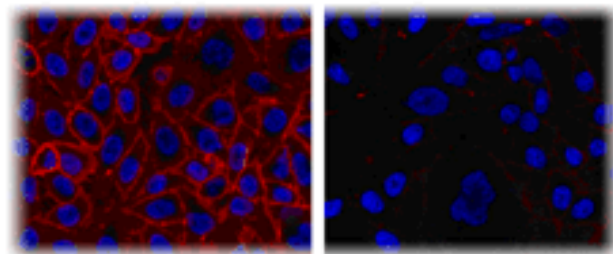
#### Procedure

For imaging GABA- $\beta_1/\beta_2$  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 GB-633-AN



Left – The GB-633-AN ligand (30 nM) binding to 3 live CHO cells expressing muscarinic M3 receptors.

Right – Binding of the GB-633-AN ligand blocked by the unlabeled competitor 4-D AMP (10  $\mu\text{M}$ ).

Nuclei have been counterstained with Hoechst dye.

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