



Human m1 Muscarinic Receptor Membranes

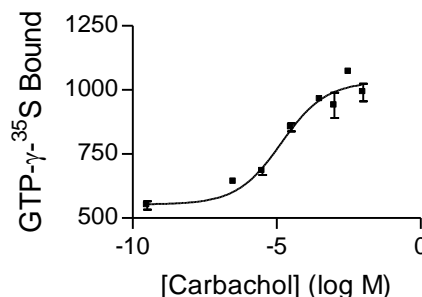
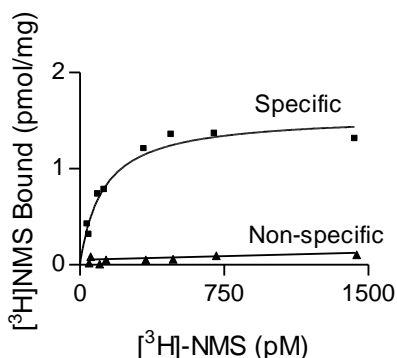
Catalog #A311; Batch 591

PRODUCT DESCRIPTION: Frozen membranes from CHO-K1 cells expressing recombinant human M1 muscarinic receptors.

SPECIFICATIONS:
Bmax for [³H]-NMS binding: 1.5 pmol/mg
Kd for [³H]-NMS binding: 119 pM
Host cell: CHO-K1
GenBank Accession Number: X15263

PACKAGING: 400 ul of membrane suspension in storage buffer (10 mM Tris HCl pH 7.8, 10% sucrose) at a protein concentration of 7.5 mg/mL

REPRESENTATIVE DATA:



RECOMMENDED ASSAY CONDITIONS. Thaw vials rapidly. For [³H]-NMS binding, incubate 7.5 ug of protein and [³H]-NMS ([³H]N-methyl scopolamine, Amersham Life Sciences) in assay buffer (phosphate buffered saline without Ca⁺⁺ or Mg⁺⁺, pH 7.4) for 2 hrs at room temperature. Filter over GF/C filters (pre-treated with 0.5% polyethylenimine); wash filters rapidly with ice-cold wash buffer (50 mM Tris-HCl pH 7.8, 0.9% NaCl). Count filters. Non-specific binding defined with 5 uM atropine. Under these conditions, we obtained the representative data shown above (left). For GTP- γ -³⁵S binding, incubate 3 ug protein, carbachol, 0.1 nM GTP- γ -³⁵S in binding buffer (20 mM Hepes-NaOH pH 7.4, 100 mM NaCl, 10 mM MgCl₂, 2 μ M GDP, 0.2% BSA, 10 ug/ml saponin) for 30 min at 30°C. Filter over GF/C filters and wash filters 6x with 10 mM sodium phosphate buffer, pH. 7.4. Under these conditions, we obtained the representative data shown above (right).

STORAGE RECOMMENDATIONS: Storage at -80°C is recommended. Repeated freeze- thawing of this product is not recommended.

FOR NON-HUMAN INVESTIGATIONAL RESEARCH USE ONLY.