

RBHM1M (RB-HM1): Human M1 Muscarinic Receptor

SPECIFIC LOT DATA: Lot 1875

Receptor Concentration (B_{max}): 0.45 pmol/mg protein

K_d for [3H]NMS Binding: 255 pM

Volume: 1.00 ml per vial; 400 microassays/vial

Protein Concentration: 13.8 mg/ml

PACKAGING: Membranes suspended in 50 mM TRIS-HCl pH 7.4, 10% sucrose.

RECOMMENDED ASSAY PROCEDURES:

Thaw: Thaw vials rapidly; dilute with binding buffer; homogenize. Keep on ice.
Incubation buffer: Phosphate buffered saline (PBS), pH 7.4

Binding protocol for 400 microassays per vial: Incubate 34.5 μ g of membranes (20 μ l of a 1:8 dilution), [3H]N-methyl scopolamine (0.34 nM, 84 Ci/mmol), in a total volume of 0.2 ml for 60 min at 25°C. Use 5 μ M atropine to define non-specific binding. Filter over GF/C filter (presoaked in 0.5% PEI), wash 9x with 0.5 ml ice-cold 50 mM Tris-HCl, 0.9% NaCl, pH 7.4. Under these conditions, we obtained approximately 1659 cpm of total binding, of which, 14 cpm were non-specific. For saturation binding experiments, increase the incubation time to 120 min at 25°C. **NOTE:** Severe ligand depletion occurs under these conditions, significantly altering B_{max} and K_d calculations. The B_{max} and K_d values were calculated using the conditions named above with only 8.6 μ g of membranes.

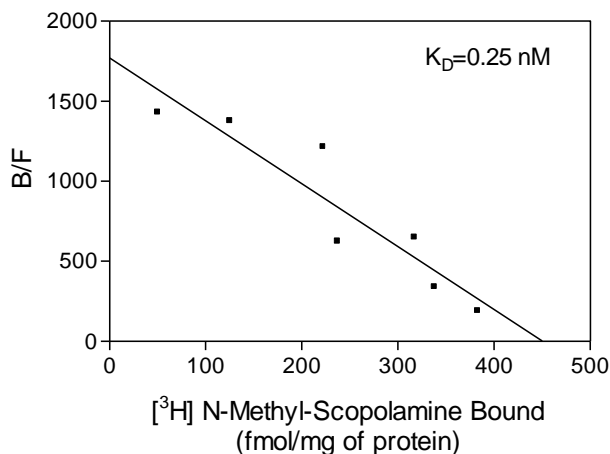
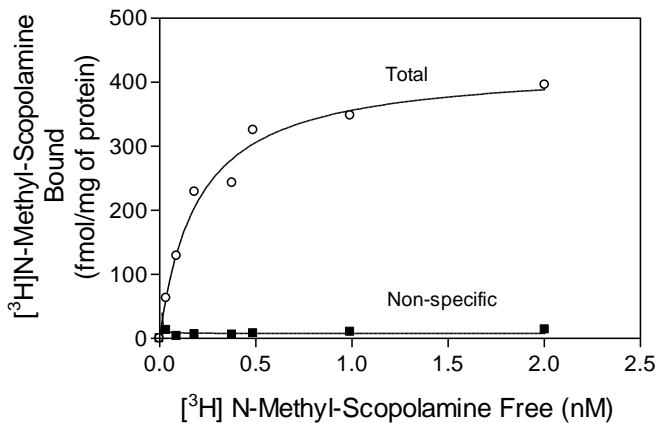
STABILITY AND STORAGE RECOMMENDATIONS: Storage at -80°C is recommended. Long term stability of this product is under investigation. Repeated freeze-thawing of this product is not recommended.

ORIGIN: Human m1 muscarinic receptors transfected in CHO-K1 cells [NJ Buckley, TI Bonner, CM Buckley, MR Brann *Antagonist binding properties of five cloned muscarinic receptors expressed in CHO-K1 cells.* Mol. Pharm. **35**: 469-476, 1989]

FOR NON-HUMAN INVESTIGATIONAL RESEARCH USE ONLY. NOT FOR RESALE.



[3H] NMS BINDING TO HUMAN M1 MUSCARINIC RECEPTOR, LOT 1875



Affinity Constants for human M1 receptors, Lot 1875

COMPETITORS	Ki (nM)
p-F-HHSiD	114
pirenzepine	1.7
methoctramine	194

