

## PRODUCT INFORMATION SHEET

### RBHVIPM: Human Vasoactive Intestinal Peptide Receptor (Non-recombinant)

**SPECIFIC LOT DATA:** Batch 1700B

Receptor Concentration ( $B_{max}$ ): 3.6 pmol/mg protein

$K_d$  for [ $^{125}$ I]VIP Binding: 1.16 nM

Volume: 0.4 ml per vial; 400 microassays/vial

Protein Concentration: 2.18 mg/ml

**PACKAGING:** Membranes suspended in 20 mM HEPES, pH 7.7, 5 mM MgCl<sub>2</sub>, 10% sucrose.

#### RECOMMENDED ASSAY PROCEDURES:

Thaw: Thaw vials rapidly; dilute with binding buffer; homogenize. Keep on ice.

Incubation buffer: 20 mM HEPES, 5 mM MgCl<sub>2</sub>, 1.0% BSA, pH 7.7

**Binding protocol:** Incubate 2.18 µg of membranes (20 µl of 1:20 dilution), [ $^{125}$ I]VIP (1.15 nM, 2000 Ci/mmol) in a total volume of 0.1 ml for 30 minutes at room temperature. Use 1 µM VIP to define non-specific binding. Filter over GF/C filter (presoaked in 0.5% PEI) and wash filter 9x with 0.5 ml ice-cold 20 mM HEPES (pH 7.7), 5 mM MgCl<sub>2</sub>, 0.15 M NaCl and 1% BSA. Under these conditions, we obtained 17463 cpm of total binding, of which 3781 cpm were non-specific.

**STORAGE CONDITIONS:** Store at -80°C. **Freeze-thaw is not recommended** as it can affect product performance and homogeneity. In order to minimize negative impact of freeze-thawing, flash freeze in liquid nitrogen for 30 seconds prior to transferring to -80°C.

**ORIGIN:** VIP receptor endogenous to human HT-29 cells.

**REFERENCE:** A Couvineau, Rousset, M., Laburthe, M. Molecular identification and structural requirement of vasoactive intestinal peptide (VIP) receptors in the human colon adenocarcinoma cell line, HT-29. *J. Biochem.* **231**: 139-143, 1985.

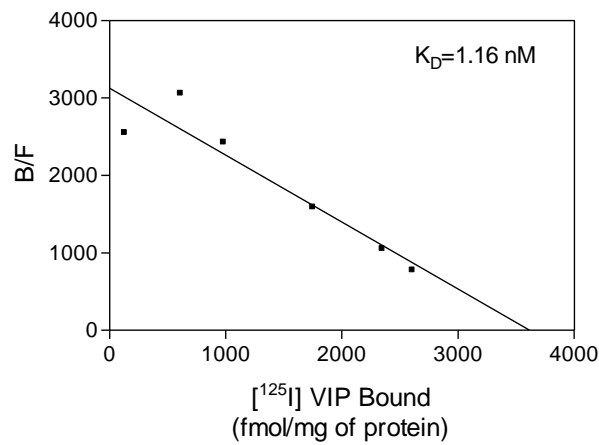
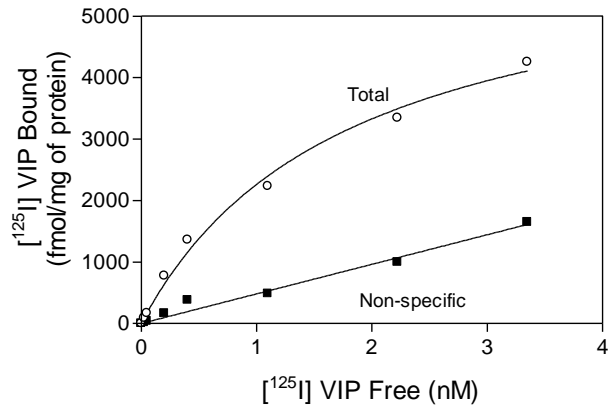
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# [<sup>125</sup>I]VIP BINDING AT HUMAN VIP RECEPTOR LOT 1700B



Affinity Constants at hVIP receptor  
Lot 1700B

COMPETITOR	$K_i$ (nM)
VIP	1.2
VIP <sub>10-28</sub>	690
Secretin	560

