

Research use only. Not for use in diagnostic procedures.

Membrane Target Systems™

# human Galanin Gal<sub>2</sub> Receptor

Product No.: ES-511-M400UA

Lot No.: 2121985

#### Material Provided

Membranes:  $1 \times 400 \text{ units} / 400 \mu \text{L}$  frozen aliquot

#### **Product Information**

Cellular Background: CHO-K1

GenBank Accession Number: AF080586

Unit Size: 3 µg protein / unit

Storage Buffer: 50 mM Tris-HCL (pH 7.4), 0.5mM EDTA, 10mM MgCl<sub>2</sub>, 10% sucrose.

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.

Stability: This product is stable for at least 3 years from reception if used and

stored under recommended conditions.

#### **Quality Control**

 $B_{max}$  and  $K_d$  are determined using radioactive saturation binding assays (Figure 1). Protein concentration is determined using the BCA method <sup>(1)</sup>. Ratio-to-Reference (RTR) is determined by dividing the maximal signal of the current lot ( $B_{max}$  in fmoles) by the maximal signal of a pre-defined reference tested in parallel. RTR is an indicator of lot-to-lot consistency. \*We certify that these results meet our quality release criteria.

Ratio-to-Reference (RTR): N/A

Expression Level (B<sub>max</sub>): 1.07 pmol/mg membrane protein.

Kd for [125]-Galanin (human): 2.06 nM

Protein Concentration: 3 μg/μL

(1) Smith, P.K., et al. (1985). Anal. Biochem. 150, 76-85.



#### **Recommended Assay Conditions**

Assay Buffer: 25 mM Hepes pH 7.4, 5 mM MgCl<sub>2</sub>, 1 mM EDTA, 0.5% BSA

Wash Buffer: 25 mM Hepes pH 7.4, 5 mM MgCl<sub>2</sub>, 1 mM EDTA, 0.5% BSA

Binding Protocol: Binding assays are performed in 200 µL total volume according to the

following conditions:

1 - Membrane dilution: 0.05 mL of membranes + 7.45 mL assay buffer (1: 150 dilution)

2 - Incubation: 25 μL of incubation buffer or Galanin (human) (Bachem H-8230) 5 μM final

for non specific binding (Saturation binding assay)

For competition binding assay: 25  $\mu L$  of reference compounds at

decreasing concentrations (see figure 2)

 $25 \,\mu\text{L}$  of radioligand (diluted 1:10 isotopically for saturation experiments) at

the appropriate concentration (see graph below)

150 µL of diluted membranes

3 - Incubation time: 60 minutes at 27 °C

4 - Filtration: aspirate and wash 9 x 500  $\mu$ L with ice cold wash buffer over GF/C filter

(presoaked in 0.5 % PEI).

## Lot Specific Data

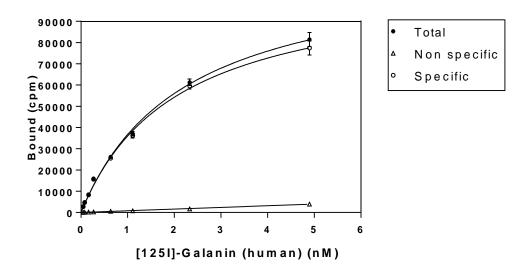


Figure 1: Saturation binding assay curve (filtration) 96-well saturation binding assay curve (3 µg membranes/well, TopCount®) using [1251]-Galanin (human) (Revvity NEX333 Lot No.: HP32560)



### Typical Product Data

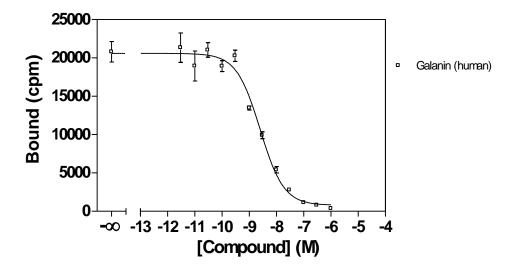


Figure 2: Competition binding assay curve (filtration) 96-well competition binding assay curve (3  $\mu$ g membranes/well, TopCount®). Recommended radioligand concentration = 1.0 nM.

\*Even though two sites can be observed occasionally with some ligands, the data presented is derived from single site fitting.

Reference Compounds	Ki
	(nM)
Galanin (human)	1.57

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