

Research use only. Not for use in diagnostic procedures.

human Serotonin 5-HT_{2B} Receptor

Product No.:	ES-314-M400UA

2969821

Material Provided

Lot No.:

Membranes:	1 x 400 units / 400 μL frozen aliquot
Product Information	
Cellular Background:	CHO-K1
GenBank Accession Number:	X77307
Unit Size:	7 μg protein / unit
Storage Buffer:	50 mM Tris-HCL (pH 7.4), 0.5mM EDTA, 10mM MgCl ₂ , 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 ⁽¹⁾. 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):	1.2
Expression Level (B _{max}):	3.8 pmol/mg membrane protein.
K _d for [³ H]-LSD :	0.3 nM
Protein Concentration:	7 μg/μL

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



Recommended Assay Conditions

Assay Buffer:	50 mM Tris pH 7.4, 4 mM CaCl ₂ , 0.1% ascorbic acid
Wash Buffer:	50 mM Tris-HCl pH 7.4
Binding Protocol:	Binding assays are performed in 550 μL total volume according to the following conditions:
1 - Membrane dilution:	0.05 mL of membranes + 24.95 mL assay buffer (1:500 dilution)
2 - Incubation:	25 μL of incubation buffer or Serotonin (5-HT) (Sigma H9523) 50 μM final for non-specific binding (Saturation binding assay)
	For competition binding assay: 25 μL of reference compounds at decreasing concentrations (see figure 2)
	25 μL of radioligand at the appropriate concentration (see graph below) 500 μL of diluted membranes
3 - Incubation time:	30 minutes at 37 °C
4 - Filtration:	aspirate and wash 9 x 500 μL with ice cold wash buffer over GF/C filter (presoaked in 0.5 $\%$ PEI).

Lot Specific Data

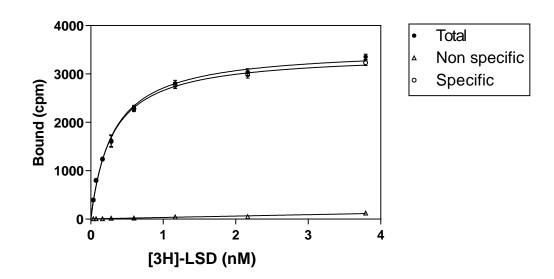


Figure 1: Saturation binding assay curve (filtration) 96-well saturation binding assay curve (7 µg membranes/well, TopCount®) using [³H]-LSD (Revvity NET638 Lot No.: 2958164)



Typical Product Data

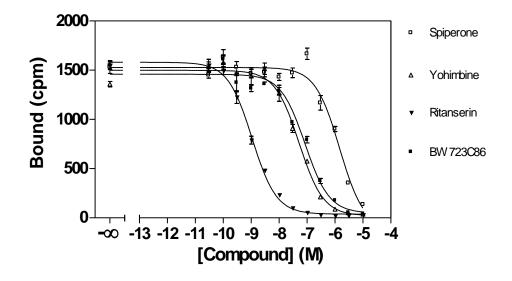


Figure 2: Competition binding assay curve (filtration) 96-well competition binding assay curve (7 µg membranes/well, TopCount®). Recommended radioligand concentration = 1 nM.

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

Reference Compounds	Ki
	(nM)
Spiperone	813
Yohimbine	29
Ritanserin	0.60
BW 723C86	47

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