

human Angiotensin AT₂ Receptor

Product Number:	ES-070-M400UA	
Lot Number:	2204886	
		\checkmark
Material Provided Membranes:		1 x 400 units / 400 μL frozen aliquot
Product Information Cellular Background:		СНО-К1
GenBank Ac	cession Number:	X70811
Unit Size:		2 μg protein / unit
Storage Buff	er:	50 mM Tris-HCL (pH 7.4), 0.5mM EDTA, 10mM MgCl ₂ , 10% sucrose.
Storage Con	ditions:	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

Bmax and Kd 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 (Bmax 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.

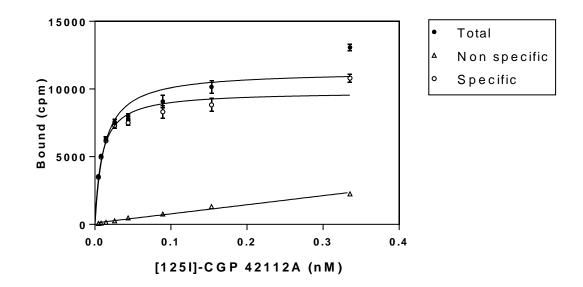
Ratio-to-Reference (RTR):	0.84
Expression Level (B _{MAX}):	0.41 pmol/mg membrane protein.
K_{D} for $\left[^{125}\text{I}\right]\text{-}(\text{-})\text{Iodocyanopindolol}\text{:}$	0.01 nM
Protein Concentration:	2 µg/µL

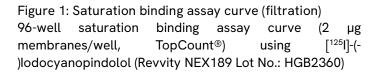
(1) Smith, P.K., et al. (1985). Anal. Biochem. 150, 76-85.



Recommended Assay Conditions				
Assay Buffer:	25 mM Hepes pH 7.4, 1 mM EDTA, 0.5% BSA			
Wash Buffer:	10 mM Hepes pH 7.4, 500 mM NaCl			
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 Cyanopindolol (Tocris 0993) 250 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) 150 μL of diluted membranes			
3 - Incubation time:	30 minutes at 27 °C			
4 - Filtration:	aspirate and wash 9 x 500 μL with ice cold wash buffer over GF/B filter (presoaked in 0.5 $\%$ BSA).			

Lot Specific Deta







Typical Product Data

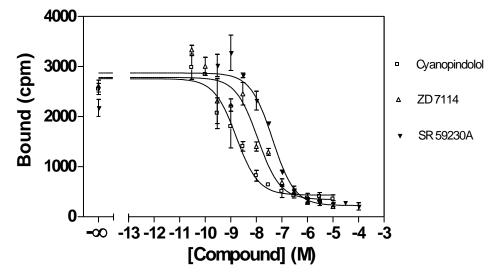


Figure 2: Competition binding assay curve (filtration) 96-well competition binding assay curve (2 µg membranes/well, TopCount®). Recommended radioligand concentration = 0.165 nM.

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

Reference Compounds	Ki
	(nM)
Cyanopindolol	1.2
ZD 7114	8.6
SR 59230A	33

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