

Research use only. Not for use in diagnostic procedures.

Membrane Target Systems™

human Endothelin ET_A Receptor

Product No.: ES-320-M400UA

Lot No.: 3152360

Material Provided

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

Product Information

Cellular Background: CHO-K1

GenBank Accession Number: \$81539

Unit Size: 0.1 µg protein / unit

Storage Buffer: 50 mM Tris-HCL (pH 7.4), 0.5mM EDTA, 10mM MgCl₂, 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): N/A

Expression Level (B_{max}): 30 pmol/mg membrane protein.

 K_d for $\lceil ^{125}I \rceil$ -Endothelin-1: 0.27 nM

Protein Concentration: 0.1 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, 10 mM MgCl₂, 1 mM CaCl₂, 0.5% BSA

Wash Buffer: 25 mM Hepes pH 7.4, 5 mM MgCl₂, 1 mM CaCl₂, 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 μ L of incubation buffer or Endothelin-1 (Bachem H-6995) 1 μ M 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: 60 minutes at 27 °C

4 - Filtration: aspirate and wash 9 x 500 μL with ice cold wash buffer over GF/C filter

(presoaked in 0.5 % BSA).

Lot Specific Data

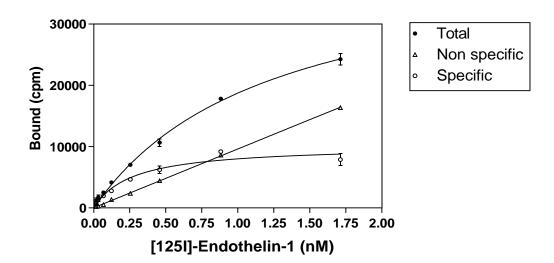


Figure 1: Saturation binding assay curve (filtration) 96-well saturation binding assay curve (0.1 µg membranes/well, TopCount®) using [125]-Endothelin-1 (Revvity NEX259 Lot No.: ER70730)



Typical Product Data

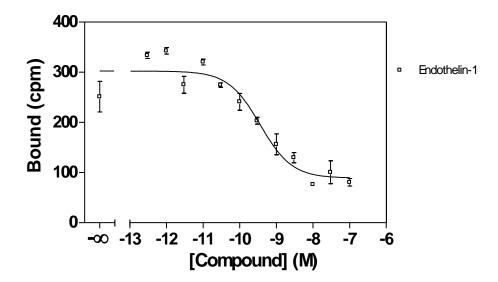


Figure 2: Competition binding assay curve (filtration) 96-well competition binding assay curve (0.1 μ g membranes/well, TopCount®). Recommended radioligand concentration = 0.04 nM.

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

Reference Compounds	Ki
	(nM)
Endothelin-1	0.33

This product is not for resale or distribution except by authorized distributors. The information provided in this document is valid for the specified lot number and date of analysis. This information is for reference purposes only and does not constitute a warranty or guarantee of the product's suitability for any specific use. Revvity, Inc., its subsidiaries, and/or affiliates (collectively, "Revvity") do not assume any liability for any errors or damages arising from the use of this document or the product described herein. REVVITY EXPRESSLY DISCLAIMS ALL WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDLESS OF WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED, ALLEGEDLY ARISING FROM ANY USAGE OF ANY TRADE OR ANY COURSE OF DEALING, IN CONNECTION WITH THE USE OF INFORMATION CONTAINED HEREIN OR THE PRODUCT ITSELF.



Revvity 940 Winter Street Waltham, MA 02451 USA

(800) 762-4000 www.revvity.com For a complete listing of our global offices, visit www.revvity.com Copyright ©2023, Revvity, Inc. All rights reserved.