human Cholecystokinin CCK_2 Receptor

Product No.: RBHCKBM400UA

Lot No.: 3375713

Material Provided

Membranes:	1 x 400 units / 400 µL frozen aliquot

Product Information

Cellular Background:	HEK293
GenBank Accession Number:	NM_176875
Unit Size:	3 µg protein / unit
Storage Buffer:	10 mM HEPES-KOH (pH 7.4), 5mM $MgCl_2$, 20 µg/ml Bacitracin,1 µg/ml PMSF, 1 Protease Inhibitor Tablet (EDTA Free) per 250 ml and 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):	0.7
Expression Level (B_{max}):	10.6 pmol/mg membrane protein.
K_d for [^{125}I]-CCK-8:	0.22 nM
Protein Concentration:	3 µg/µL

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

Recommended Assay Conditions

Assay Buffer:	10 mM Hepes pH 7.4, 5 mM $MgCl_2$, 200 µg/ml Bacitracin, 1 µg/ml PMSF
Wash Buffer:	PBS, 0.2 % 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 Gastrin I (human) (Sigma G9020) 1 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:	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 % PEI).

Lot Specific Data

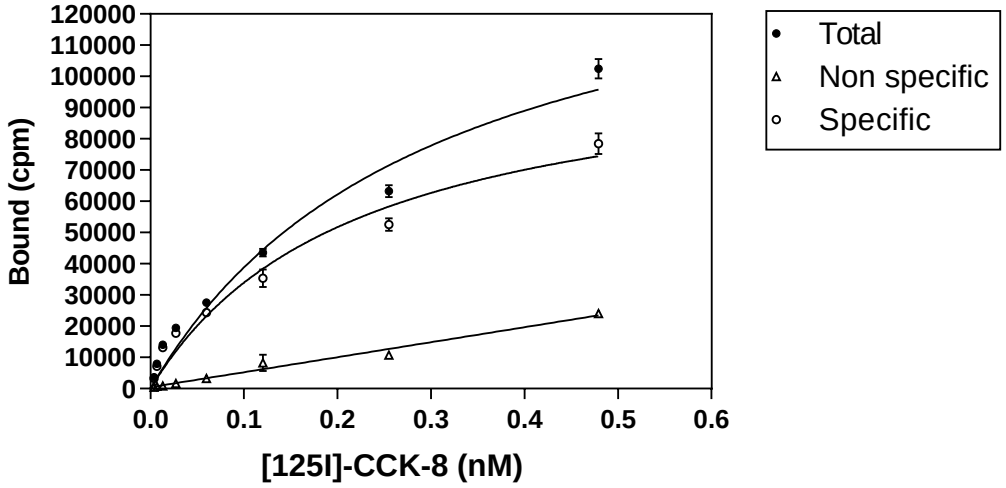

Figure 1: Saturation binding assay curve (filtration)
96-well saturation binding assay curve (3 µg membranes/well, TopCount®) using [^{125}I]-CCK-8 (Revvity NEX203 Lot No.: DD30750)

Revvity Proprietary Information

Typical Product Data

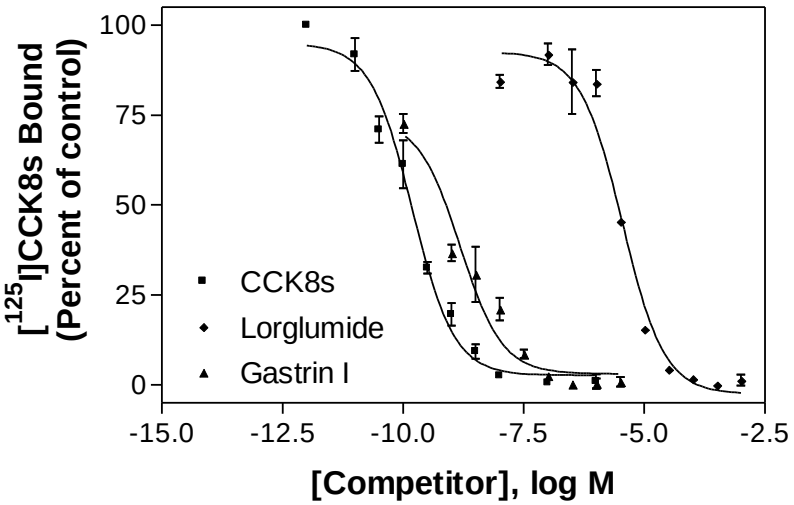

Figure 2: Competition binding assay curve (filtration)
96-well competition binding assay curve (2.75 µg membranes/well, Microbetat®). Recommended radioligand concentration = 0.1 nM.

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

Reference Compounds	Ki (nM)
Cholecystokinin Octapeptide (sulfated)	0.13
Gastrin I (human)	1.3
Lorglumide	2993

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