human Cholecystokinin CCK1 Receptor

Lot No.: 2996926

Material Provided

Membranes:	1 x 400 units / 400 μL frozen aliquot
Product Information	
Cellular Background:	1321-N1
GenBank Accession Number:	L19315
Unit Size:	5 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):	1.5
Expression Level (B _{max}):	7.68 pmol/mg membrane protein.
K _d for [³ H]-CCK-8 (sulfated):	0.09 nM
Protein Concentration:	5 μg/μL

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



Recommended Assay Conditions

Assay Buffer:	50 mM Tris-HCl pH 7.4, 5 mM MgCl ₂
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 Cholecystokinin Octapeptide (sulfated) (Bachem H-2080) 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) 500 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

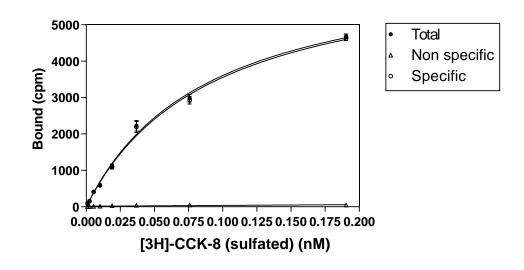
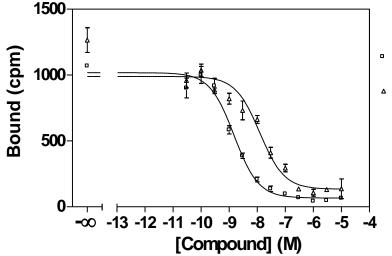


Figure 1: Saturation binding assay curve (filtration) 96-well saturation binding assay curve (5 µg membranes/well, TopCount®) using [³H]-CCK-8 (sulfated) (Revvity NET1162 Lot No.: 2976591)



Typical Product Data



- Cholecystokinin Octapeptide (sulfated)
- △ Lorglumide

Figure 2: Competition binding assay curve (filtration) 96-well competition binding assay curve (5 μ g membranes/well, TopCount[®]). Recommended radioligand concentration = 1.2 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)	0.43
Lorglumide	3.6

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