

Product Information

CCKA CHOLECYSTOKININ RECEPTOR, HUMAN RECOMBINANT (Sf9)

Product Number **C 6980**

Product Description

CCKA Cholecystokinin receptor, human recombinant (Sf9) is a frozen aliquot of membranes from Sf9 cells transfected with the human recombinant CCKA Cholecystokinin receptor.

Reagent

CCKA Cholecystokinin receptor, human recombinant (Sf9) is suspended at 100 µg/mL in 50 mM Tris-HCl, pH 7.4, 10 % glycerol, and 1 % bovine serum albumin (BSA).

Procedure

Incubation buffer:
50 mM TRIS-HCL, pH 7.4
5 mM MgCl₂
0.2 % BSA (add just before use)

Binding Protocol

Membranes:

Dilute in incubation buffer (0.5 mL of membrane + 24.5 mL incubation buffer).

Assay mixture:

500 µl diluted membranes
20 µl radioligand
20 µl buffer or unlabeled ligand

Radioligand:

L-364718 at a final concentration of 0.5 nM for competition studies.

Unlabeled ligand:

Lorglumide at a concentration of 370 µM.

Incubation time:

60 minutes at 27 °C

Separation:

Over GF/C filter (5 mm diam., presoaked in 0.3 % polyethylamine prepared in incubation buffer) then washed 9x with 500 µl of ice cold 10 mM TRIS-HCl, pH 7.4 at 4 °C.

Results

Typical affinities using standard assay above. Results may vary from lot to lot.

Ligand	K _i (nM)
[³ H] L-364718	0.4 (Kd)
Lorglumide	3600

Storage/Stability

Store tightly sealed at -80 °C. Long term stability of this product is being evaluated. Initial studies indicate that the receptor can retain its original specific activity for several months when stored at -80 °C in its original packing solution. Repeated freeze-thaw of this product is not recommended.

Precautions

While no human toxicity data is available for this substance, it should be handled with care. Precautions should be taken to avoid contact by all routes of exposure.

References

1. Wettstein, J.G. et al., Pharmacol. Ther., **62**, 267-282 (1994).
2. Wank, S.A. et al., Ann. N.Y. Acad. Sci., **713**, 49-66 (1994).
3. Ferris, H.A. et al., Biochemistry, **38**, 1497-1508 (1999).

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