



Product Information

FPR1 CHEMOATTRACTANT RECEPTOR, HUMAN RECOMBINANT (CHO)

Product Number **C 6855**

Product Description

FPR1 (formyl peptide receptor 1) Chemoattractant Receptor, human recombinant (CHO) is a frozen aliquot of membranes from CHO cells transfected with the human recombinant FPR1 Chemoattractant receptor.

Reagent

FPR1 Chemoattractant Receptor, human recombinant (CHO) is suspended at 6 mg/mL in 50 mM Tris-HCl, pH 7.4, 10 % glycerol, and 1 % bovine serum albumin (BSA).

Procedure

Incubation buffer:

25 mM HEPES, pH 7.4
1 mM MgCl₂
2 mM CaCl₂
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:

[³H] fMLP at a final concentration of 0.3 nM for competition studies.

Unlabeled ligand:

fMLP at a concentration of 1.0 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 HEPES, pH 7.4 with 0.5 M NaCl at 4 °C.

Results

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

Ligand	K _i (nM)
[³ H] fMLP	0.3 (K _d)
fMLP	0.44
p-iodo-fMLP	6.32

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. Perez, H.D. et al., Biochemistry, **31**, 11595-11599 (1992).
2. Klotz, K.N. and Jesaitis, A.J., Bioessays, **16**, 193-198 (1994).
3. Becker, E.L. et al., Cell Tissue Res., **292**, 129-135 (1998).
4. Walthur, A. et al., Mol. Cell, **5**, 831-840 (2000).

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