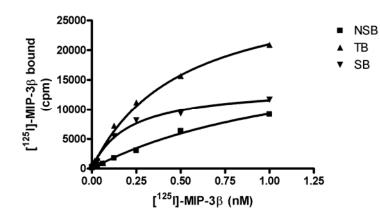
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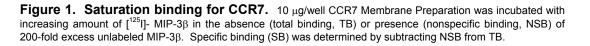
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CHEMISCREEN[™] MEMBRANE PREPARATION RECOMBINANT HUMAN CCR7 CHEMOKINE RECEPTOR

CATALOG NUMBER:	HTS012M	QUANTITY:	200 units
LOT NUMBER:		VOLUME/CONCENTRATION:	4 mL, 0.5 mg/mL
BACKGROUND:	(CCL21) (Yoshida <i>et al.</i> organs, and binding to (migration of these cells CCR7/ligand interaction vs host disease in expe addition, CCR7 express associated with lymph r Chemicon's CCR7 mem our proprietary stable re expression; thus, they a with 6Ckine and MIP-3	inds to CC chemokine ligands MIP , 1997). These ligands are express CCR7 expressed in naïve T cells, E to sites of antigen presentation (Fö is inhibits contact sensitivity, delayer rimental models (Förster <i>et al.</i> , 199 sion by breast cancer, melanoma an node metastasis (Müller <i>et al.</i> , 2001 nbrane preparations are crude men ecombinant cell lines to ensure high are ideal HTS tools for screening of B. The membrane preparations exh R7 Membrane Prep and 0.1 nM [¹² tio is obtained.	sed in the secondary lymphoid cells and dendritic cells directs orster <i>et al.</i> , 1999). Inhibition of ed type hypersensitivity, and graft 19; Sasaki <i>et al.</i> , 2003). In nd other malignant cells are ; Payne and Cornelius, 2002). hbrane preparations made from h-level of GPCR surface antagonists of CCR7 interactions hibit a Kd of 0.2 nM for [¹²⁵ I]- MIP-

APPLICATIONS: Radioligand binding assay, and GTPγS binding.





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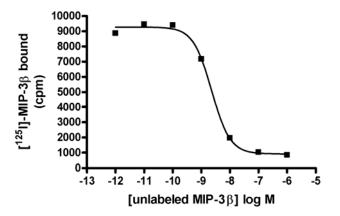


Figure 2. Competition binding for CCR7. CCR7 Membrane Preparation (10 μ g/well) was incubated with 0.1 nM [¹²⁵]-MIP-3 β and increasing concentrations of unlabeled MIP-3 β , and more than 7- fold signal:background was obtained.

	10 μg/well
Signal:background	10.2
Specific binding	8362

 Table 1. Signal:background and specific binding values obtained in a competition binding assay with CCR7 membrane preparation.

SPECIFICATIONS: 1 unit = 10 μ g membrane preparation Bmax: 3.3 pmol/mg K_d: 0.2 nM

Species: Human CCR7 (Accession number L08176)

HOST CELLS: Chem-2, a suspension mammalian cell line without any endogenous CCR7 expression.

RECOMMENDED ASSAY CONDITIONS: Membranes are mixed with radioactive ligand and unlabeled competitor (see Figures 1 and 2 for concentrations tested) in binding buffer in a nonbinding 96-well plate, and incubated for 1-2 h. Prior to filtration, a GF/C 96-well filter plate is coated with 0.33% polyethyleneimine for 30 min, then washed with 50mM HEPES, pH 7.4, 0.5% BSA. Binding reaction is transferred to the filter plate, and washed 3 times (1 mL per well per wash) with Wash Buffer. The plate is dried and counted.

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Binding buffer: 50 mM Hepes, pH 7.4, 5 mM MgCl_2, 1 mM CaCl_2, 0.2% BSA, filtered and stored at 4°C

Radioligand: [¹²⁵I] MIP-3 β (Perkin Elmer #NEX370)

Wash Buffer: 50 mM Hepes, pH 7.4, 500mM NaCl , 0.1% BSA, filtered and stored at 4°C.

One package contains enough membranes for at least 200 assays (units), where an unit is the amount of membrane that will yield greater than 7-fold signal:background with 125 I-labeled MIP-3 β at 0.1 nM

PRESENTATION: Liquid in packaging buffer: 50 mM Tris pH 7.4, 10% glycerol and 1% BSA no preservatives. Packaging method: Membranes protein were adjusted to the indicated concentration in packaging buffer, rapidly frozen, and stored at -80°C.

STORAGE/HANDLING: Maintain frozen at –70°C for up to 2 years. Do not freeze and thaw.

REFERENCES: Yoshida R *et al.* (1997) Molecular cloning of a novel human CC chemokine EBI1-ligand chemokine that is a specific functional ligand for EBI1, CCR7. *J. Biol. Chem.* 272: 13803-9.

Förster R *et al.* (1999) CCR7 coordinates the primary immune response by establishing functional microenvironments in secondary lymphoid organs. *Cell* 99: 23-33.

Sasaki M *et al.* (2003) Antagonist of secondary lymphoid-tissue chemokine (CCR ligand 21) prevents the development of chronic graft-versus-host disease in mice. *J. Immunol.* 170: 588-96.

Müller A *et al.* (2001) Involvement of chemokine receptors in breast cancer metastasis. *Nature* 410: 50-56.

Payne AS and Cornelius LA (2002) The role of chemokines in melanoma tumor growth and metastasis. *J. Invest. Dermatol.* 118: 915-922.

For research use only; not for use as a diagnostic.

Important Note: During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.

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