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PRODUCT DATASHEET

ChemiScreen[™] B2 Bradykinin Membrane Preparation

CATALOG NUMBER:	HTS041M	QUANTITY:	200 units
LOT NUMBER:	21K1806	VOLUME/CONCENTRATION:	1 mL, 2 mg/mL
BACKGROUND:	Bradykinins bind and activate two GPCRs, termed B ₁ and B ₂ (gene names BDKRB1 and BDKRB2, respectively), which signal through G_q and G_i . B ₂ is widely expressed in a constitutive fashion, whereas B ₁ expression is induced during inflammation. B ₂ appears to mediate much of the activity of kinins in vasodilation, arthritis, edema, and nociception (Leeb-Lundberg <i>et al.</i> , 2005). B ₂ membrane preparations are crude membrane preparations made from our proprietary stable recombinant cell lines to ensure high-level of GPCF surface expression. Thus, they are ideal HTS tools for screening of antagonists of B ₂ interactions with bradykinin. The membrane preparations exhibit a K _d of 1.3 nM for [³ H]-bradykinin.		

APPLICATIONS: Radioligand binding assay





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SPECIFICATIONS: 1 unit =10 μg B_{max} for [³H]-Bradykinin Binding: 6.5 pmol/mg protein K_d for [³H]-Bradykinin Binding: 1.3 nM Signal:background: >7

Species: Human BDKRB2 cDNA encoding B2 (Accession number M88714)

HOST CELLS: Chem-1, an adherent mammalian cell line without any endogenous B₂ 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 non-binding 96-well plate, and incubated for 1-2 h at room temperature. Prior to filtration, a GF/C 96-well filter plate is coated with 0.33% polyethyleneimine for 30 min, then washed with 50 mM HEPES, pH 7.4, 0.5% BSA. The binding reactions are transferred to the filter plate, and washed 3 times (1 mL per well per wash) with Wash Buffer. The wells are then dried and counted for determination of receptor-associated radioligand binding.

Binding buffer: 50 mM HEPES, pH 7.4, 5 mM MgCl₂, 1 mM CaCl₂, 0.2% BSA, filtered and stored at 4°C

Radioligand: [3H]-Bradykinin (PerkinElmer # NET706)

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



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PRESENTATION:	Liquid in packaging buffer: 50 mM Tris pH 7.4, 10% glycerol and 1% BSA with no preservatives. Packaging method: Membrane proteins were adjusted to the indicated concentration in 1 ml packaging buffer, rapidly frozen, and stored at -80°C.		
STORAGE/HANDLING:	Store at -70° C. Product is stable for at least 6 months from the date of receipt when stored as directed. Do not freeze and thaw.		
REFERENCES:	 Leeb-Lundberg L.M.F. <i>et al.</i> (2005) International Union of Pharmacology. XLV. Classification of the kinin receptor family: from molecular mechanisms to pathophysiological consequences. <i>Pharmacol. Rev.</i> 57:27-77 		

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