MULTISCREEN™ MEMBRANE
HUMAN RECOMBINANT MGLUR3 RECEPTOR

PRODUCT INFORMATION

Catalog Number: MCG1190
Lot Number: MCG1190-03052012
Quantity: 1 vial (15.6mg/ml, 1mg)
Freeze Medium: Sigma Freezing Medium (C-6164)
Host cell: HEK293T Gαqi5
Transfection: Expression vector containing full-length human GRM3 cDNA (GenBank Accession Number NM_000840) with FLAG tag sequence at N-terminus
Recommended Storage: Liquid nitrogen

Data sheet

Background: Metabotropic glutamate receptor mGluR3 is a G protein-coupled receptor for glutamate. Glutamate is the major excitatory neurotransmitter in the mammalian central nervous system and functions to regulate excitability via pre- and postsynaptic mechanisms. The mGluR3 receptor is widely expressed in glial cells but also shows discrete localization both pre- and postsynaptic on glutamatergic and other neurotransmitter synapses. It is also expressed within forebrain regions including hippocampus and thalamus. Agonists of mGluR3 have been shown to suppress enhanced glutamatergic excitations in brain synapses known to be involved in the expression of fear/anxiety in animals and humans. It is anticipated that mGluR3 receptor represent a promising new target for treatment of anxiety and stress-related disorders in humans.

Application: Radioligand Binding Assay

Figure 1. Saturation binding assay curve: Specific binding obtained with mGluR3 membrane with [3H]LY341495. Scatchard plot showing one binding site. Figure 2. Competition binding assay curve: Dose dependent competition of LY341495 for [3H]LY341495 1nM. Figure 3. Receptor expression on cell surface measured by flow cytometry (FACS) using an anti-FLAG antibody. Thin line: parental cells; thick line: receptor-expressing cells.

References:


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