MULTISCREEN™ MEMBRANE PREPARATION
HUMAN RECOMBINANT δ OPIOID RECEPTOR

PRODUCT INFORMATION

Catalog Number: MC1351-1
Lot Number: MC1351-1-07262012
Quantity: 1 vial (7.1 mg/ml)
Host cell: CHO-K1

Transfection: Expression vector containing full-length human OPRD1 cDNA (GenBank Accession Number: NM_000911.3) with FLAG tag sequence at N-terminus

Recommended Storage: Liquid nitrogen

Data sheet

Background: δ opioid receptor (DOR) inhibits neurotransmitter release by reducing Ca++ currents and increasing K+ conductance. In rats, morphine tolerance is associated with DOR-mediated activation of cortical CCKergic systems. There are indications that some DOR antagonists produce potent antilusive effects and may be considered as candidates of antilusive drugs. In contrast, some DOR agonists have shown antinociceptive, seizuregenic and convulsive properties, implicating a role for the DOR in depression. Early clinical experiments have demonstrated that exogenously administered opioid peptides had antidepressant activity in human patients, suggesting that the receptor may provide a new therapeutic target for treating depression.

Application: [35S]GTPγS Binding Assay

Figure 1

Figure 2

Figure 1. Dose-dependent [35S]GTPγS Binding to δ opioid membrane upon treatment with agonist using homogenous proximity assay method. Figure 2. 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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