MULTISCREEN™ DIVISION ARRESTED CELL LINE
HUMAN RECOMBINANT MC4 RECEPTOR

PRODUCT INFORMATION

Catalog Number: DH1343
Lot Number: DH1343-080911
Quantity: 1 vial (4 x 10⁶) frozen cells
Freeze Medium: Sigma Freezing Medium (C-6164)
Host cell: HEK293T
Transfection: Expression vector containing full-length human MC4R cDNA (GenBank Accession Number NM_005912.2) with FLAG tag sequence at N-terminus
Recommended Storage: Liquid nitrogen upon receiving
Propagation Medium: DMEM, 10% FBS
Stability: Stable for 1-2 days after thawing

Data sheet

Background: The melanocortin receptor MC4 is expressed in the central nervous system, gastrointestinal tract and placenta. The melanocortin family is essential in the control of body weight homeostasis, sexual behavior, and autonomic functions; MC4 receptors are primarily involved in the regulation of food uptake. MC4 agonists have great potential in the treatment of weight disorders and sexual dysfunction, whereas MC4 antagonists may be useful in the treatment of anorectic and cachectic conditions.

Application: Functional assays

Figure 1

Figure 1. Dose-dependent stimulation of intracellular cAMP level upon treatment with ligand, measured with cAMP HiRange kit (Cisbio 62AM6PEC).

References: