

MULTISCREEN<sup>TM</sup> DIVISION-ARRESTED CELL LINE HUMAN RECOMBINANT EP2 RECEPTOR

## **PRODUCT INFORMATION**

Catalog Number: DC1202

Lot Number: DC1202-100523

Quantity: 1 vial (4 x 10<sup>6</sup>) frozen cells

Freeze Medium: CellBanker 2

Host cell: HEK293T

**Transfection**: Expression vector containing full-length human EP2 cDNA (GenBank Accession Number NM\_000956.3) with FLAG tag sequence at N-terminus

Recommended Storage: Liquid nitrogen upon receiving

Propagation Medium: DMEM, 10% FBS

## **Data sheet**

**Background:** The human prostaglandin E2 (PGE2) receptor EP2 (PTGER2) is abundantly expressed in various tissues including the corneal epithelium of the eye, spinal cord, forebrain, articular cartilage, and kidney. EP2 plays important roles in bronchodilation, dilation of arterioles and venules, blood pressure regulation, smooth muscle relaxation, and bone formation. Modification of PGE2-EP2 receptor signaling may provide a new therapeutic strategy for renal regulation and blood pressure illnesses, as well as bone disease such as osteoarthritis.

Application: Functional assays

## Figure 1

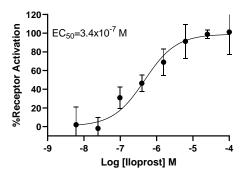


Figure 1. Dose-dependent accumulation of intracellular cAMP upon treatment with ligand, measured with MULTISCREEN™ TR-FRET cAMP 1.0 No Wash Assay Kit (Multispan MSCM01).

## **References:**

Morath *et al.* (1999) Immunolocalization of the four prostaglandin E2 receptor proteins EP1, EP2, EP3, and EP4 in human kidney. *J Am Soc Nephrol* 10:1851-1860.

Zhang *et al.* (2000) Characterization of murine vasopressor and vasodepressor prostaglandin E(2) receptors. *Hypertension* 35:1129-1134.

Li X *et al.* (2009) Prostaglandin E(2) and its cognate EP receptors control human adult articular cartilage homeostasis and are linked to the pathophysiology of osteoarthritis. *Arthritis Rheum* 60:513-523.

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