

Delta-type opioid receptor (OPRD1) Cell Line | OPRD1 cell line

Human Delta-type opioid receptor (OPRD1) ACTOne Stable Cell Line

CATALOG #
AAA62073

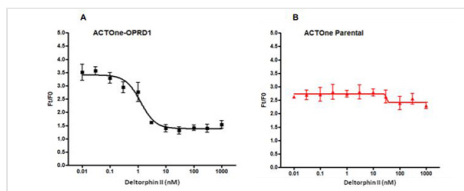
PRODUCT SYNONYMS

Delta-type opioid receptor (OPRD1); Human Delta-type opioid receptor (OPRD1) ACTOne Stable Cell Line; Opioid Receptor; Delta 1 (OPRD1) ACTOne Stable Cell Line; Delta 1 (OPRD1); OPRD1 cell line

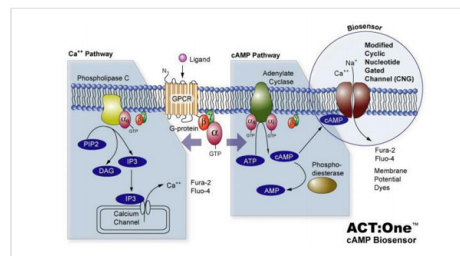
PRODUCT SPECIFICATIONS

Sequence Length	372
Cell Culture Medium	Growth medium (for OPRD1 Stable Cell Line): 90% DMEM, 10% FBS, supplemented with 250 ug/ml G418, 1 ug/ml Puromycin Growth medium (for Parental Cell Line): 90% DMEM, 10% FBS, supplemented with 250 ug/ml G418 Freezing medium: 10% DMSO, 90% FBS
Mycoplasma Contamination Test	This cell line has been tested negative for Mycoplasma sp.
Growth Properties	Adherent
Detection	FlexStation or Microplate reader
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Dry Ice Shipment: Extra charge fee may add to your shipping cost as dry ice is required to ship this product. Shipping Note: Product is available for shipment in the United States, Canada and European countries. Please inquire for shipment to other countries.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for OPRD1 cell line	Introduction: OPRD1 is a G-protein coupled receptor that functions as receptor for endogenous enkephalins and for a subset of other opioids. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling leads to the inhibition of adenylate cyclase activity. It inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. It plays a role in the perception of pain and in opiate-mediated analgesia. It also plays a role in developing analgesic tolerance to morphine. Description: Human OPRD1 ACTOne is a HEK293-CNG cell line that expresses recombinant human HTR1A. HEK293-CNG cells express a modified CNG (Cyclic Nucleotide Gated) channel that opens in response to elevated intracellular cAMP levels and consequently result in ion flux and cell membrane depolarization which can be easily measured with fluorescent Membrane Potential Dye (Cat# MBS430187). The assay allows both end-point and kinetic measurement of intracellular cAMP changes with a FLIPR, or a fluorescence microplate reader.
Product Categories/Family for OPRD1 cell line	Cell Based GPCR-PDE Compound Assay System; ACTOne Assay on G-Protein Coupled Receptors (GPCRs); ACTOne GPCR Stable Cell Lines; Opioid Receptor Delta 1 (OPRD1) ACTOne Stable Cell Line

NCBI AND UNIPROT INFORMATION

NCBI GI #	63477962
NCBI GeneID	4985
NCBI Accession #	NP_000902
NCBI GenBank Nucleotide #	NM_000911.3
UniProt Accession #	P41143; B5B0B8
Molecular Weight	40,369 Da
NCBI Official Full Name	delta-type opioid receptor
NCBI Official Synonym Full Names	opioid receptor delta 1
NCBI Official Symbol	OPRD1
NCBI Official Synonym Symbols	DOP; DOR; DOR1; OPRD
NCBI Protein Information	delta-type opioid receptor
UniProt Protein Name	Delta-type opioid receptor
UniProt Gene Name	OPRD1
UniProt Synonym Gene Names	OPRD; D-OR-1; DOR-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.