

Version: 02

Update: 07/19/2022

CERTIFICATE OF ANALYSIS

Product Information

Product Name	CHO-K1/Gα15/OPRL1
Cat. No.	M00447
Lot No.	R10091808
Host Cell:	CHO-K1/Gα15
Target Gene:	OPRL1
Size:	2 vials of frozen cells, > 1x10 ⁶ cells/vial
Shipping Condition:	Dry Ice (-80°C)
Storage Condition:	Liquid Nitrogen (-196°C)

Stable Cell Line Information

Recommended Cell Culture Medium: Ham's F-12K (Kaighn's), 10% FBS, 400 µg/ml G418, 100 µg/ml Hygromycin B

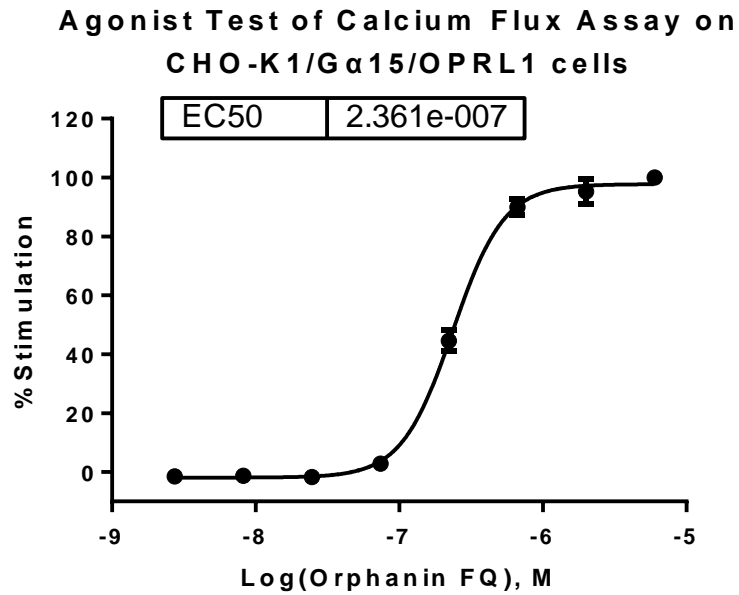
Freeze Medium: 45% culture medium, 45% FBS, 10% DMSO

Application: Calcium Flux assay, IP-one assay and cAMP assay on OPRL1 receptor.

Test Item	Specification	Result
Mycoplasma	Negative*	Negative*
Cell viability	>90%	96.26%
Quantity	>1x10 ⁶ cells/vial	2.2x10 ⁶ cells/vial

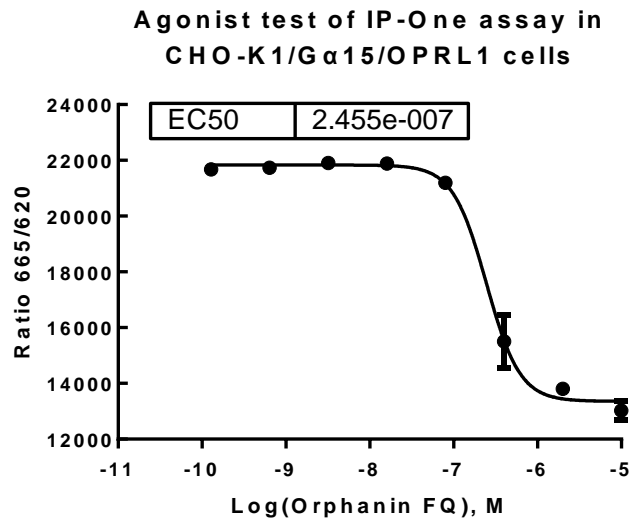
* The mycoplasma test was performed with MycoAlert™ PLUS Mycoplasma Detection Kit of Lonza.

Calcium Flux assay



Orphanin FQ-induced concentration-dependent stimulation of intracellular calcium mobilization in CHO-K1/G α 15/OPRL1 cells, $EC_{50} = 2.361 \times 10^{-7}$ M.

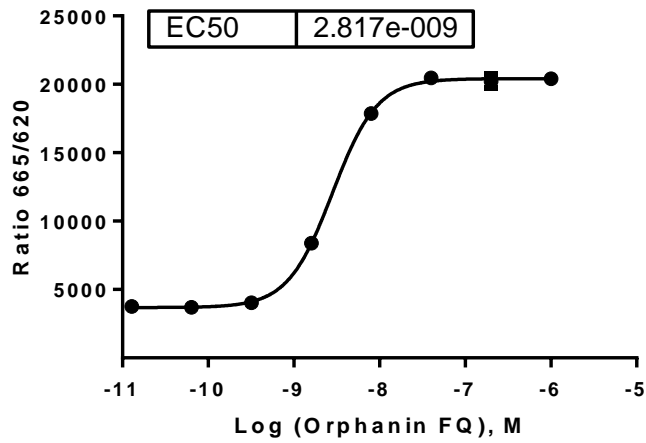
IP-one assay



Orphanin FQ-induced concentration-dependent stimulation of IP-one in CHO-K1/G α 15/OPRL1 cells, $EC_{50} = 2.455 \times 10^{-7}$ M.

cAMP assay

Agonist test of cAMP assay in CHO-K1/G α 15/OPRL1 Cells



Orphanin FQ-induced concentration-dependent stimulation of cAMP in CHO-K1/G α 15/OPRL1 cells, $EC_{50} = 2.817 \times 10^{-9}$ M.

Date: 07/19/2022

Approved by: *Dan Jiang*

Department of Reagent Product R&D

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