

CERTIFICATE OF ANALYSIS

Product Information

Product Name	CHO-K1/Gα15/OPRM1
Cat. No.	M00304
Lot No.	R10011808
Host Cell:	CHO-K1/ Gα15
Target Gene:	OPRM1
Quantity:	2 vials of frozen cells, > 1x10 ⁶ cells/vial
Shipping Condition:	Dry Ice
Recommended Storage Condition:	Liquid Nitrogen

Stable Cell Line Information

Recommended Cell Culture Medium: Ham's F-12, 10% FBS, 200 µg/ml Zeocin, 100 µg/ml Hygromycin B

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

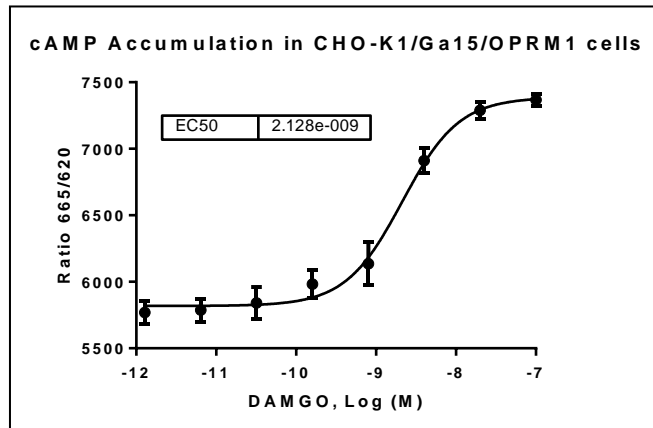
Application: cAMP assay and Calcium Flux assay on OPRM1 receptor.

Test Item	Specification	Result
Mycoplasma	Negative*	Negative*
Cell viability	>90%	95%
Function assay	Calcium Flux assay	EC ₅₀ = 2.243×10 ⁻⁹ M
Function assay	cAMP assay	EC ₅₀ = 2.128×10 ⁻⁹ M

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

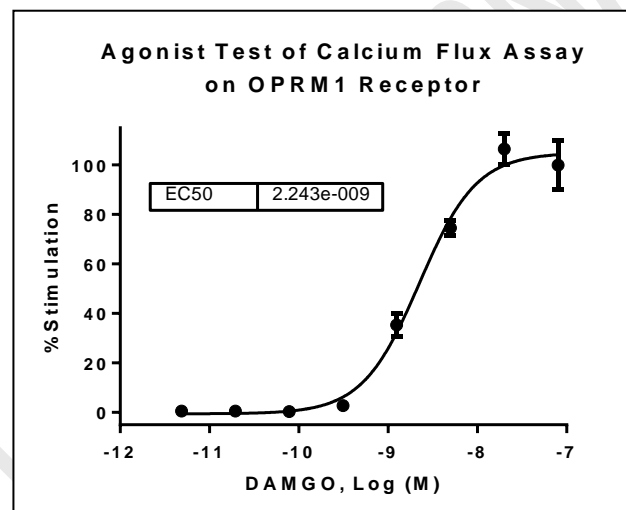
Appendix

1. cAMP assay



DAMGO induced concentration-dependent stimulation of intracellular cAMP accumulation in CHO-K1/Gα15/OPRM1 cell. $EC_{50} = 2.128 \times 10^{-9}$ M

2. Calcium Flux assay



DAMGO induced concentration-dependent stimulation response of intracellular calcium mobilization in CHO-K1/Gα15/OPRM1 cells. $EC_{50} = 2.243 \times 10^{-9}$ M.

Caution

For research use only. Not intended for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188.

Certified by:

Wang Yan

Date: 1/10/2018

Department of New Technology