

Version: 01

Update: 03/31/2023

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name	CHO-K1/OPRD1/Gα15
Cat. No.	M00323
Lot No.	R50323312
Host Cell:	CHO-K1/Gα15
Target Gene:	OPRD1
Size:	2 vials of frozen cells (> 1×10 <sup>6</sup> per vial in 1 ml)
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, 100 µg/ml Hygromycin B, 200 µg/ml Zeocin

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

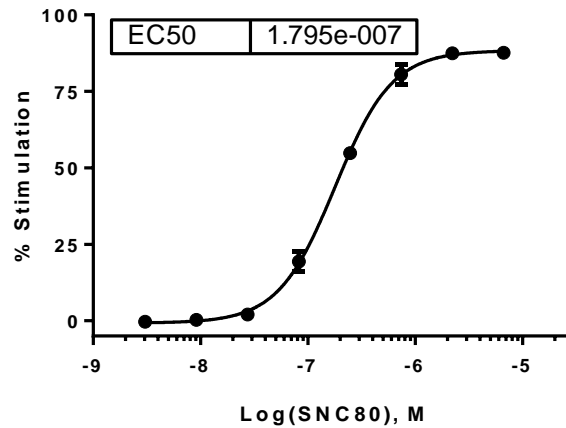
**Application:** Calcium Flux assay, cAMP and IP-one assay on OPRD1 receptor.

Test Item	Specification	Result
Mycoplasma	Negative*	Negative*
Cell viability	>90%	96.94%
Quantity	>1×10 <sup>6</sup> cells/vial	2.36×10 <sup>6</sup> cells/vial

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

## Calcium Flux assay

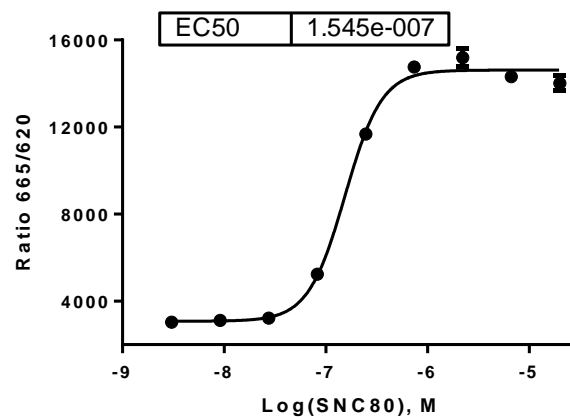
Agonist Test of Calcium Flux Assay on  
CHO-K1/OPRD1/G $\alpha$ 15 cells



SNC80-induced concentration-dependent stimulation of intracellular calcium mobilization in CHO-K1/OPRD1/G $\alpha$ 15 cells,  $EC_{50} = 1.795 \times 10^{-7}$  M.

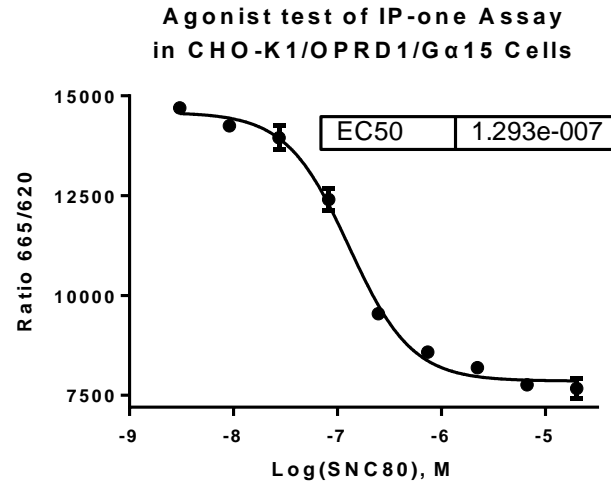
## cAMP assay

Agonist test of cAMP Assay in  
CHO-K1/OPRD1/G $\alpha$ 15 Cells



SNC80-induced concentration-dependent stimulation of cAMP in CHO-K1/OPRD1/G $\alpha$ 15 cells,  $EC_{50} = 1.545 \times 10^{-7}$  M.

## IP-one assay



SNC80-induced concentration-dependent stimulation of IP-one in CHO-K1/OPRD1/G $\alpha$ 15 cells, EC<sub>50</sub> = 1.293 X10<sup>-7</sup> M.

Date: 03/31/2023

Approved by:

*Jinhong Chen*

Department of Reagent Product R&D

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