

CERTIFICATE OF ANALYSIS

Product Information

| | |
|--------------------------------|---|
| Product Name | HEK293/CRE-luciferase/GLP1R |
| Cat. No. | M00562 |
| Lot No. | R10031809 |
| Host Cell: | HEK293 |
| Target Gene: | GLP1R |
| 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: DMEM, 10% FBS, 400 µg/ml G418, 100 µg/ml Hygromycin B

Freeze Medium: 90% FBS, 10% (V/V) DMSO

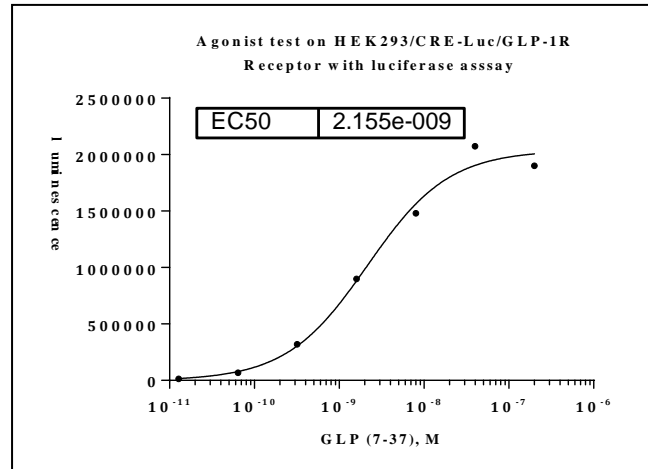
Application: Functional assay for HEK293/CRE-luciferase/GLP1R

| Test Item | Specification | Result |
|----------------|------------------|----------------------------|
| Mycoplasma | Not detected* | Not detected* |
| Cell viability | >90% | 95% |
| Function assay | cAMP assay | EC ₅₀ =13.42 nM |
| Function assay | Luciferase assay | EC ₅₀ =2.16 nM |

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

Appendix

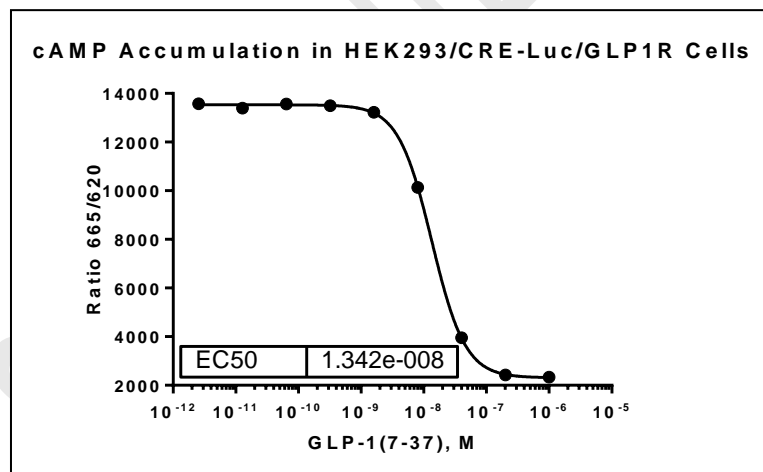
1. Luciferase assay



GLP-1(7-37)-induced luciferase expression in HEK293/CRE-Luc/GLP1R cells. After stimulation by agonist GLP-1(7-37), the cells are determined with One-Glo™ Luciferase Assay System and the relative luminescence units (RLU) were recorded by PheraStar.

The RLU were plotted against the log of the cumulative doses of GLP-1(7-37) (Mean ± SD, n = 3). The EC₅₀ of GLP-1(7-37) on HEK293/CRE-Luc/GLP-1R cells was 2.16 nM. The S/B of the assay was 74.

2. cAMP assay



GLP-1(7-37) induced concentration-dependent stimulation of intracellular cAMP accumulation in HEK293/CRE-luciferase/GLP1R cells. EC₅₀=1.342×10⁻⁸ 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 Yue* Date: 11/11/2019

Department of New Technology