

ISRE-Luc/NF κ B-SEAP/THP-1

CBP74097

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I. Background

THP1 reporter cells are derived from THP-1, a human monocytic cell line that naturally expresses many pattern-recognition receptors, including Toll-like receptors.

II. Description

The NF- κ B reporter (Luc)-THP-1 cell line is designed for monitoring nuclear factor Kappa B (NF- κ B) signal transduction pathways. It contains a firefly luciferase gene driven by four copies of the NF- κ B response element located upstream of the minimal TATA promoter. After activation by pro-inflammatory cytokines or stimulants of lymphokine receptors, endogenous NF- κ B transcription factors bind to the DNA response elements, inducing transcription of the luciferase reporter gene.

III. Introduction

Host Cell: THP-1

Expressed gene: ISRE

Stability: 32 passages (in-house test, that not means the cell line will be



instable beyond the passages we tested.)

Synonym(s): NF-kB reporter, NFkappaB reporter, luciferase reporter,
NF-kB reporter, NFkB reporter, nfkb thp1, thp1, NF-kB, nfkb, nf-kb

Freeze Medium: 90% FBS+10% DMSO

Culture Medium: RPMI-1640+10%FBS+10 μ g/ml of blasticidin+ 100 μ
g/ml of Zeocin

Mycoplasma Testing: Negative

Storage: Liquid nitrogen

Application(s):Functional(Report Gene) Assay

IV. Description of Host Cell Line

Organism: Homo sapiens, human

Tissue: Peripheral blood

Disease: Acute monocytic leukemia

Morphology: Monocyte

Growth Properties: Suspension

V. Representative Data



Dose Response of 2'3'-cGAMP in THP-1 ISRE-Luc/NFkB-SEAP Cells

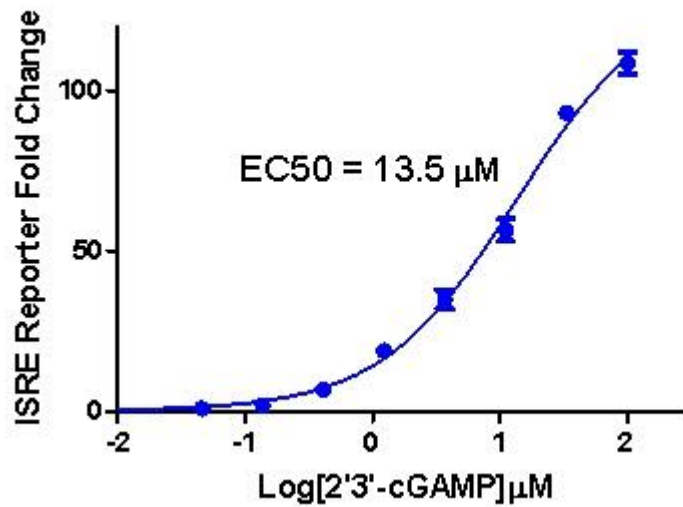


Figure 1. Detect Luciferase assay by Ultra Luciferase Detection Kit CBPH0001 (we strongly suggest to purchase from Cobioer). Dose Response of 2'3'-cGAMP in THP-1 ISRE-Luc/NFkB-SEAP Cells, the EC50 was 13.5μM.

