CREATIVE BIOMART®
Assay Kit

SEAP Reporter Gene Assay Kit (Luminescence)

Product Information

Cat.No. Kit-0780

Product Overview

SEAP Reporter Gene Assay Kit (Luminescence) provides a simple chemiluminescence method for the sensitive quantitation of SEAP (secreted alkaline phosphatase) in conditioned cell culture medium from transfected cells. The assay can detect SEAP activity in the microunits/well (mU/ml) range. The kit includes enough reagents to run three 96-well plates. The assay is easy to perform and can be completed within one hour.

Size

300 tests

Description

Secreted alkaline phosphatase (SEAP) is commonly used as a reporter of gene expression. Compared to other conventional intracellular reporters such as chloramphenicol acetyltransferase (CAT) and firefly luciferase, SEAP has the advantage of being secreted from transfected cells into the culture medium. SEAP activity in the culture medium is directly proportional to changes in intracellular concentrations of SEAP mRNA and protein. In addition, the kinetics of gene expression can be studied using the same cultures by repeatedly collecting culture medium at different time points. The intact cells can be used for further analysis of RNA or protein expression.SEAP activity was first measured using the chromogenic alkaline phosphatase substrate p-nitrophenyl phosphate (pNPP). Today, the most sensitive SEAP assays employ chemiluminescent alkaline phosphatase substrates such as the 1,2-dioxetane CSPD. Chemiluminescent detection of SEAP is fast, easy to perform, and sensitive.

Applications

Functional Studies more details

Target Species

Reacts with: Human; Predicted to work with: all Mammals

Kit Components

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

CREATIVE BIOMART®
Assay Kit

SEAP Reporter Gene Assay Kit (Luminescence)

Components: 300 tests; 96-Well Solid Plate (white) with lid: 3 units; Cell-Based Alkaline Phosphatase Standard: 1 x 50µl; SEAP Substrate (Luminescence): 1 x 15ml

Compatible Sample Types
Cell culture media
Assay time
1h 00m

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.org

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA