CREATIVE BIOMART®
Assay Kit

TCF/LEF Reporter Kit (Wnt Signaling Pathway)

Product Information

Cat.No. Kit-1877

Product Overview

The Wnt/β-catenin signaling pathway controls a large and diverse set of cell fate decisions in embryonic development, adult organ maintenance and disease. Wnt proteins bind to receptors on the cell surface, initiating a signaling cascade that leads to stabilization and nuclear translocation of β-catenin. β-catenin then binds to TCF/LEF transcription factors in the nucleus, leading to transcription and expression of Wnt-responsive genes.

Size

500 reactions

Description

The TCF/LEF Reporter kit is designed for monitoring the activity of Wnt / β-catenin signaling pathway in the cultured cells. The kit contains transfection-ready TCF/LEF luciferase reporter vector, which is a Wnt pathway-responsive reporter. This reporter contains a firefly luciferase gene under the control of multimerized TCF/LEF responsive element located upstream of a minimal promoter. The TCF/LEF reporter is premixed with constitutively-expressing Renilla luciferase vector that serves as internal control for transfection efficiency. The kit also includes a non-inducible firefly luciferase vector premixed with constitutively-expressing Renilla luciferase vector as negative control. The non-inducible luciferase vector contains a firefly luciferase gene under the control of a minimal promoter, without any additional response elements. The negative control is critical to determining pathway specific effects and background luciferase activity.

Applications

Monitor Wnt /β-catenin signaling pathway activity.Screen for activators or inhibitors of the Wnt /β-catenin signaling pathway.Study effects of RNAi or gene overexpression on the activity of the Wnt /β-catenin pathway.

Storage

Stable at least 12 months from date of receipt, when stored as directed (-20°C)

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Kit Components

Reporter (Component A): TCF/LEF luciferase reporter vector + constitutively expressing Renilla luciferase vector; 500 µl (60 ng DNA/ µl); -20°C Negative Control Reporter (Component B): Non-inducible luciferase vector + constitutively expressing Renilla luciferase vector; 500 µl (60 ng DNA/ µl); -20°CThese vectors are ready for transient transfection. They are NOT MEANT for transformation and amplification in bacteria.

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