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ExpressBoost Reagents

For boosting exogenous protein expression in mammalian cells

Catalogue Number: EB07-S1 (stable transfection), Size: 1.0 ml

Catalogue Number: EB07-T1 (transient transfection), Size: 1.0 ml

Product Summary

Based on unique combination of chemicals we have created a series of innovative ExpressBoost reagents that result in substantially higher level (X2 to X20) and duration of exogenous protein expression.

Up to 20 fold enhancement in transiently or stably expressed cells.

- Significantly augmented the level and duration of gene expression in diverse cell lines
- Efficient for both transient and stable transfections
- Optimized conditions for commonly used cell lines
- Compatibility with all major commercial transfection reagents
- Easy-to-use
- Economical

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Description

The ExpressBoost reagents are chemical cocktails developed to increase the gene expression level. Two unique formulations have been developed, for transient and stable expression experiments, respectively. They are very easy to use: simply add the ExpressBoost reagent to your growth medium at an appropriate concentration at any time. The level of gene expression can be increased by 2 to 20 fold.

Components

One vial of ExpressBoost T1 reagent (1.0 ml), at a 500X concentration, is sufficient for 5 00 transfection events using 1 ml transfection volume.

One vial of ExpressBoost S1 reagent (1.0 ml), at a 500X concentration, is sufficient for 500 ml culture medium.

Protocol

- Bring ExpressBoost reagents up to room temperature first if stored at -20°C

- Mix briefly before use.

For transient expression experiments:

1. Prepare transfection according to the manufacturer's protocol. 4-8 hr post-transfection, add the ExpressBoost T1 reagent to cells for a minimum of 12 hr of incubation prior proceeding to the targeted experiments. Make sure to mix well with growth medium. Alternatively, add the ExpressBoost T1 reagent-containing medium (final concentration is 1X), which assures the best mixing.
2. Alternatively, change to fresh culture medium without the ExpressBoost T1 reagent for a certain period of time, before performing the targeted experiments.

For stable cell lines:

1. The ExpressBoost S1 reagent can be added to growth medium at any time. Recommended incubation time is 24-72 hr. Re-use it 3-5 days after removal. It can also be continually applied at lower concentration.

Notes

- Although the ExpressBoost reagents were carefully optimized for some host cells, it may be necessary to adjust final concentration of the reagent to reduce potential toxicity or maximize the expression efficiency. We recommend testing within the dilution range of 250X and 1500X.

Shipping and Storage

ExpressBoost reagents are shipped at room temperature. Upon receipt, keep these reagents at -20°C for long-term storage. The reagents are stable at 4°C for 6 months. Avoid frequent freezing and thawing.