

Apoptosis Inducer Kit

Introduction

Apoptosis is a kind of programmed death that is common in organisms. The main characteristics of apoptosis are phosphatidylserine exposure on the external leaflet of the plasma membrane, activation of caspase enzyme, decreased mitochondrial membrane potential, genomic DNA fragmentation, and nuclear fragmentation.

Apoptosis Inducer Kit provides a reagent that mixes recombinant human TNF- α and SM-164 in a certain ratio, which can effectively induce apoptosis. Recombinant human TNF- α is a pro-inflammatory cytokine with multiple functions; while SM-164 is a bivalent mimetic of Smac, which can induce TNF- α dependent apoptosis. The reagent in this kit is a ready-to-use solution that can be used directly to induce apoptosis. For 6-well plates, using 2 mL of cell culture medium per well, the kit can be used for 100 samples; and for 96-well plates, using 200 μ L of cell culture medium per well, the kit can be used for 1000 samples.

Components and Storage

Components	K2711-100 T
Apoptosis Inducer Reagent (1000x)	200 μ L
Store the reagent at -20°C, stable for 6 months.	

Protocol

1. Dilute the Apoptosis Inducer Reagent (1000x) in cell culture medium at a ratio of 1:1000, and mix thoroughly.
2. Use the cell culture medium containing Apoptosis Inducer Reagent to culture cells for a period to induce apoptosis.

***Note:** For L-929 cells and HT-29 cells, the cell morphology changes obviously after 4 h of treatment. For other cell types, the optimal dilution ratio and induction time of Apoptosis Inducer Reagent (1000x) can be explored on your own.

Note

1. To avoid repeated freeze-thaw cycles as much as possible, this reagent is better to be stored in aliquots.
2. As the mechanism of apoptosis is cell-specific, this reagent is not guaranteed to be used for apoptosis induction in all cells.

3. After apoptosis is induced by this kit, apoptosis can be detected using kits such as Annexin V kit (Cat. No. K2003), JC-1 kit (Cat. No. K2002), and Tunel kit (Cat. No. K1133).
4. This reagent is harmful, please pay attention to protection when using it to avoid contact with the human body or inhalation.
5. For your safety and health, please wear lab coats and gloves during the experiment.
6. For research use only. Not to be used in clinical diagnostic or clinical trials.



APEx BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com