Caspase-8 Activity Assay kit

Apoptosis belongs to programmed cell death, which can be found in various organs and cells, and plays a very important role in regulating the homeostasis of cells and organs during normal development, physiology, and pathology. Caspase (Cysteine-requiring Aspartate Protease) is a family of proteases involved in the process of apoptosis, containing more than 10 members. Caspase-8, also known as FLICE, MACH or Mch5, usually exists in the form of zymogen and is activated during apoptosis. It is considered to be an upstream caspase in the process of apoptosis transduction. During Fas-receptor and TNFR-1-mediated apoptosis, caspase-8 is activated to form dimers, which in turn activate downstream caspase-4, 6, 9, and 10. The assay principle of the kit is based on the specific hydrolysis of its polypeptide substrate Ac-IETD-pNA (N-acetyl-Ile-Glu-Thr-Asp-p-nitroanilide) by Caspase-8, releasing free nitroaniline pNA, which is yellow It has a maximum absorption peak at 405 nm and is determined by visible light spectrophotometry. Its absorbance value corresponds to the hydrolytic activity of Caspase-8. The reaction system is 100 microliters, and the reagents provided by the kit can perform sample determination in addition to the standard curve.

Application: Determination of caspase-8 activity in mammalian tissues and cells.

Catalog No.	520016
Size	20 Assays
Product Category	Cell Detection
Kit Components	1. Lysis buffer 2. Reaction buffer 3. Ac-IETD-pNA substrate [2mM] 4. pNA standard [10mM]
Storage/Stability	-20°C/6 months
Shipping	Gel Packs