

Caspase-6 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-6 is also called Mch-2, and its precursor protein is cleaved by granzyme B to form an activated caspase-6 dimer, which can induce apoptosis. Caspase-6 can cleave the key regulatory protein PARP of apoptosis, and cleave the key protein lamin A on the nuclear membrane, and its recognition site for lamin A is VEID. The assay principle of the kit is based on the specific hydrolysis of its polypeptide substrate Ac-VEID-pNA (N-acetyl-Val-Glu-Ile-Asp-p-nitroanilide) by Caspase-6, 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-6. 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-6 activity in mammalian tissues and cells.

Catalog No.	520015
Size	20 Assays
Product Category	Cell Detection
Kit Components	1. Lysis buffer 2. Reaction buffer 3. Ac-VEID-pNA substrate [2mM] 4. pNA standard [10mM]
Storage/Stability	-20°C/6 months
Shipping	Gel Packs