GeneCopoeia™
Expressway to Discovery

9620 Medical Center Drive, Suite 101
Rockville, MD 20850, USA
Web: www.abpbio.com

$(Z\text{-}DEVD)_2$-R110

Catalog Number	Packaging Size
C284	5 mg

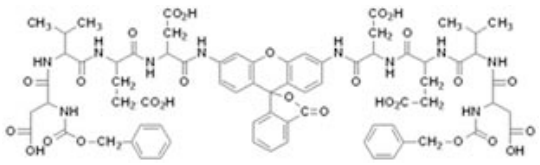
Storage upon receipt: -20°C, protected from light

Introduction

$(Z\text{-}DEVD)_2$-R110 is a fluorogenic enzyme substrate of caspase-3/7 that is widely used for high-throughput assays. Peptides are covalently linked to each of the amino groups on rhodamine 110 (R110), which suppresses the fluorescence of the dye. When the peptides are cleaved by the caspase, the substrate is converted first to the fluorescent monoamide and then to R110, with a further increase in fluorescence. The substrate can be used to continuously measure enzyme activity in cell extracts and purified enzyme preparations using a fluorometer or fluorescence microplate reader.

Specifications

Label:	Rhodamine 110
Ex/Em:	500/520 nm
Detection Method:	Fluorescent
Molecular Formula:	$C_{72}H_{78}N_{10}O_{27}$
Molecular Weight:	1515.46
CAS Number:	-
Storage Conditions:	-20°C, protected from light
Shipping Condition:	Room Temperature



Applications

Caspase Substrate

References:

1. Sphingosine 1-phosphate-induced cell proliferation, survival, and related signaling events mediated by G protein-coupled receptors Edg3 and Edg5.
   An S, Zheng Y, Bleu T
   J Biol Chem (2000) 275:288-296
2. A role for hydrogen peroxide in the pro-apoptotic effects of photodynamic therapy.
   Price M, Terlecky SR, Kessel D,
   Photochem Photobiol (2009) 85:1491-1496
3. Photodynamic therapy and cell death pathways.
   Kessel D, Oleinick NL,
   Methods Mol Biol (2010) 635:35-46