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Ac-DEVD-R110

A fluorogenic substrate for caspase-3 that can be used to continuously measure the activity of caspase-3 in cell extracts, using a fluorometer or fluorescence microplate reader.



Product attributes

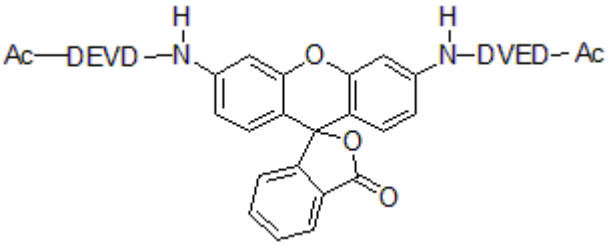
Apoptosis/viability marker	Caspase
For live or fixed cells	Cell lysis required
Detection method/readout	Microplate reader (fluorescence)
Assay type/options	Endpoint assay
Substrate specificity	Caspases
Colors	Green
Excitation/Emission	496/520 nm

Product Description

Ac-DEVD-R110 (Rhodamine 110, bis-(N-Ac-L-aspartyl-L-glutamyl-L-valyl-1-aspartic acid amide)) is a fluorogenic substrate for caspase-3 and can be used to continuously measure the activity of caspase-3 in cell extracts, using a fluorometer or fluorescence microplate reader. Ac-DEVD-R110 contains two DEVD tetrapeptides and is hydrolyzed by caspase-3/7 in two successive steps to release the green fluorescent dye rhodamine 110 (R110).

For caspase-3 kits using Ac-DEVD-R110, please see our Caspase-3 DEVD-R110 Fluorometric and Colorimetric Assay Kit (30008), and our Caspase-3 DEVD-R110 Fluorometric HTS Assay Kit (30009). For real-time detection of caspase-3 activity in intact cells, see our novel NucView®488 Caspase-3 Assay Kit.

- Abs/Em of end product (R110) = 496/520 nm (strong fluorescence)
- Off-white solid soluble in DMSO
- $C_{60}H_{70}N_{10}O_{25}$
- MW: 1331



References

1. Cell Death Differ 6(2), 99(1999) doi:10.1038/sj.cdd.4400476
2. J Biol Chem 275, 288(2000) doi:10.1074/jbc.M112.447540
3. Biochemistry 38(42), 13906(1999) doi:10.1021/bi9913395

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