

Z-IETD-pNA *CAS 219138-21-3*

Catalog number: 13413

Unit size: 5 mg

Component	Storage	Amount
Z-IETD-pNA *CAS 219138-21-3*	Freeze (<-15 °C), Minimize light exposure	5 mg

OVERVIEW

Z-IETD-pNA is a colorimetric caspase-8/granzyme B substrate containing the benzyloxycarbonyl (Z) moiety. This substrate is hydrolyzed by caspase 8 to generate highly colored pNA that is measured at 405 nm by an absorption microplate reader or spectrophotometer.

AT A GLANCE
Important notes

It is important to store at <-15 °C and should be stored in cool, dark place.

It can be used within 12 months from the date of receipt.

PREPARATION OF STOCK SOLUTIONS

Unless otherwise noted, all unused stock solutions should be divided into single-use aliquots and stored at -20 °C after preparation. Avoid repeated freeze-thaw cycles.

1. Z-IETD-pNA stock solution (10 mM):

Prepare a 10 mM stock solution in DMSO.

PREPARATION OF WORKING SOLUTION

2X caspase substrate (50 µM) assay solution as the following:

Component	Volume
Z-IETD-pNA substrate stock solution	50 µL
DTT (1M)	100 µL
EDTA (100 mM)	400 µL
Tris Buffer (20 mM), pH =7.4	10 mL
Total volume	10.55 mL

SAMPLE EXPERIMENTAL PROTOCOL

- Mix equal volume of the caspase standards or samples with 2X caspase substrate assay solution.
- Incubate the solutions at room temperature for at least 1 hour.
- Monitor the fluorescence using a fluorescence microplate reader, or absorbance using an absorbance microplate reader.

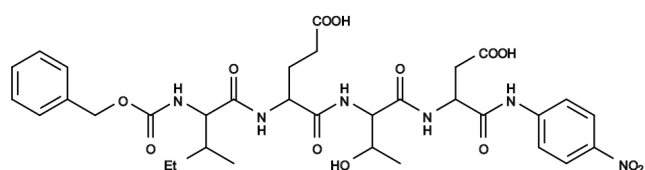
EXAMPLE DATA ANALYSIS AND FIGURES


Figure 1. Chemical structure for Z-IETD-pNA *CAS 219138-21-3*