



## Product Data Sheet

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Product Name:	Caspase 8 Substrate 1, chromogenic	
Catalog Number:	AS-25258-5 (5 mg)	Lot Number: See label on vial
Sequence:	Ac-IETD-pNA (1-letter code)	
Molecular Weight:	638.6	
Peptide Purity:	>95%	
Appearance:	Lyophilized white powder	

**Peptide Reconstitution:** Caspase 8 peptide is freely soluble in DMSO.

**Storage:** Caspase 8 is shipped at ambient temperature. Upon receipt, store lyophilized peptide at  $-20^{\circ}\text{C}$  or lower. Reconstituted peptide can be aliquoted and stored at  $-20^{\circ}\text{C}$  or lower.

**Description:** pNA (4-nitroaniline)-derived caspase substrates are widely used for the colorimetric detection of various caspase activities. Cleavage of pNA peptides by caspases generates pNA that is monitored colorimetrically at  $\sim 405$  nm. pNA has maximum absorption around 408 nm. Caspase-8 substrate with  $K_m = 66$   $\mu\text{M}$ ; Substrate for granzyme B. Grutter MG *Curr Opin Struct Biol* **10**, 649 (2000); Gastman BR *Head Neck* **23**, 409 (2001); Grutter MG *Curr Opin Struct Biol* **10**, 649 (2000); Stennicke HR and Salvesen GS *Cell Death Differ* **6**, 1054 (1999); Stennicke HR and Salvesen GS *Biochim Biophys Acta* **1387**, 17 (1998); Thornberry NA and Lazebnik *Science* **281**, 1312 (1998); Talanian RV, et al. *J Biol Chem* **272**, (1997); Fassy F, et al. *Eur J Biochem* **253**, 76 (1998); Datta R, et al. *Blood* **88**, 1936 (1996); Koeplinger KA, et al. *Protein Expr Purif* **18**, 378 (2000).

**Additional Information:** Listed below are relevant information that may provide a guideline on how to use this product. End users will have to adapt to their own specific applications.

Protein concentration was measured using the DC Protein Assay Kit (Bio-Rad, Hercules, CA) and equal amounts were incubated with 200  $\mu\text{mol/L}$  caspase-8 substrate Ile-Glu-Thr-Asp-pNA (AnaSpec, San Jose, CA) for 4 hours at  $37^{\circ}\text{C}$  in water bath. Release of pNA was determined by reading the absorbance at 405 nm- [Shao, R. et al. \*Mol Cancer Res\* \*\*3\*\*, 219 \(2005\).](#)

### Published Citations:

- Shao, R. et al. *Mol Cancer Res* **3**, 219 (2005).
- Tang, C-HA. et al. *J FEBS Letters* **579**, 265 (2005).

Related Products:

<b>Name</b>	<b>Cat #</b>	<b>Size</b>
Caspase 8 Substrate 1m, fluorogenic	AS-25270-5	5 mg
Caspase 8 Substrate 1, chromogenic	AS-25258-5	5 mg

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