



CERTIFICATE of ANALYSIS

PRODUCT:	Caspase-9 Substrate (Fluorogenic), [Ac-LEHD-AMC; Ac-Leu-Glu-His-Asp-Amc], C ₃₃ H ₄₁ N ₇ O ₁₁ , M.W. 711.7	
PRODUCT NUMBER:	C-1179	
LOT NUMBER:	A8244B	
APPEARANCE:	White powder	
SOLUBILITY:	Soluble in DMSO or phosphate buffer, pH 7.5.	
PURITY (HPLC):	99.1%	
PEPTIDE CONTENT:	81%	
COUNTER ION:	Confirms	
ES-MS:	Confirms	
AMINO ACID ANALYSIS:	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
	Asp: 0.80-1.20	Asp: 1.00
	Glu: 0.80-1.20	Glu: 1.03
	His: 0.80-1.20	His: 0.94
	Leu: 0.80-1.20	Leu: 0.96

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APPLICATION:

HEPES-Buffer
(2X):

40mM HEPES, pH 7.5, 20% glycerol,
4mM DTT. Dilute to 1X with sterile
distilled water prior to use.

Substrate:

Prepare 20mM stock solution in DMSO.

- Induce apoptosis and prepare cell lysate or use recombinant caspase.
- Prepare reaction buffer: 10 μ l of substrate stock solution + 1 ml 1X HEPES-Buffer for each reaction.
- Add an appropriate amount of cell lysate (50-100 μ l; should be titrated) or recombinant caspase to reaction buffer.
- Incubate for 1 hour at 37°C.
- Measure with spectrofluorometer: 380 nm excitation wavelength, 460 nm emission wavelength.
- Suggested controls:
 - ◆ Reaction mixture without substrate.
 - ◆ Reaction mixture with non-apoptotic cell lysate.
 - ◆ Reaction mixture with apoptotic cell lysate and caspase inhibitor.

STORAGE & HANDLING:

Keep cool and dry at -20°C. Dissolve only as much as needed at one time because of the possibility of decomposition in a solution. Store solution at -20°C. Protect peptide from condensation: when taking the sample out of the container, wait until it warms up to room temperature then open it.

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT

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