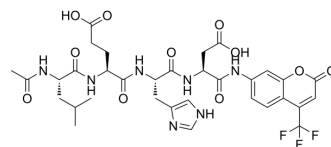


Ac-LEHD-AFC

Cat. No.:	HY-P1093
CAS No.:	210345-03-2
Molecular Formula:	C ₃₃ H ₃₈ F ₃ N ₇ O ₁₁
Molecular Weight:	765.69
Target:	Caspase
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ac-LEHD-AFC is a fluorescent substrate for caspase-9, can be used to assess the activity of caspase ^[1] .
IC ₅₀ & Target	Caspase-9 ^[1]
In Vitro	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>The assessment of the caspase activity by fluorogenic substrate assay^[1]:</p> <ol style="list-style-type: none"> Preparation of cell lysis buffer: 1 % Nonidet P-40, NaCl 200 mM, Tris/HCl 20 mM, pH 7.4, Leupeptin 10 mg/L, Aprotinin (HY-P0017) (0.27 kU/L) and 100 mM PMSF (HY-B0496) . Incubate the lysis buffer (25 mg of total protein) with 50 mmol/L of AC-DEVD-AMC (HY-P1003) (caspase-3), AC-VEID-AFC (caspase-8) or AC-LEHD-AFC (caspase-9) in the buffer (HEPES 10 mM, pH 7.4, containing Mannitol 220 mM, Sucrose 68 mM, NaCl 2 mM, KH₂PO₄ 2.5 mM, EGTA 0.5 mM, MgCl₂ 2 mM, Pyruvate 5 mM, PMSF 0.1 mM, and Dithiothreitol 1 mM). Assess the caspase activity by measuring fluorescent 7-amino-4-methylcoumarin released for 1 h at a 2-min intervals by a spectrofluorometer. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Chae HJ, et al. Je-chun-jun induced apoptosis of human cervical carcinoma HeLa cells. Acta Pharmacol Sin. 2004 Oct;25(10):1372-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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