



## **Certificate of Analysis**

www.tocris.com

Product Name: Ac-LEHD-AFC Catalog No.: 1575 Batch No.: 2

CAS Number: 210345-03-2

IUPAC Name: N-Acetyl-Leu-Glu-His-Asp-(7-amino-4-trifluoromethylcoumarin)

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:  $C_{33}H_{38}F_3N_7O_{11}$ 

**Batch Molecular Weight:** 765.7

Physical Appearance: White lyophilised solid

Net Peptide Content: 81.8%
Counter Ion: TFA

**Solubility:** Soluble to 1 mg/ml in water

Storage: Desiccate at -20°C

Peptide Sequence: Ac-Leu-Glu-His-Asp-AFC

2. ANALYTICAL DATA

HPLC: Shows 97.5%% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Λla			Lve		

/ tiu			Lys
Arg			Met
Asx	1.00	1.00	Phe
Cys			Pro
Glx	1.00	1.01	Ser
Gly			Thr
His	1.00	1.01	Trp
lle			Tyr
Leu	1.00	1.00	Val



## **Product Information**

Print Date: Jan 18th 2016

www.tocris.com

Product Name: Ac-LEHD-AFC Catalog No.: 1575 Batch No.: 2

CAS Number: 210345-03-2

IUPAC Name: N-Acetyl-Leu-Glu-His-Asp-(7-amino-4-trifluoromethylcoumarin)

**Description:** 

Fluorogenic caspase substrate. Analog of the caspase-9

substrate, LEHD-AFC.

**Physical and Chemical Properties:** 

Batch Molecular Formula: C<sub>33</sub>H<sub>38</sub>F<sub>3</sub>N<sub>7</sub>O<sub>11</sub>

Batch Molecular Weight: 765.7

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Leu-Glu-His-Asp-AFC

Storage: Desiccate at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected

from exposure to light.

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 81.8% (Remaining weight made up of

counterions and residual water).

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met,Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

## References:

**Ito** et al (1999) Possible involvement of cytochrome c release and sequential activation of caspases in ceramide-induced apoptosis in SK-N-MC cells. Biochim.Biophys.Acta **1452** 263. PMID: 10590315.

Moriya et al (2000) Mechanism of nitric oxide-induced apoptosis in human neuroblastoma SH-SY5Y cells. FEBS Lett. 484 253. PMID: 11078888.