# PRODUCT INFORMATION



## Ac-LEVD-AFC

Item No. 28809

CAS Registry No.: 1092077-23-0

Formal Name: N-acetyl-L-leucyl-L-α-glutamyl-L-

valyl-N-[2-oxo-4-(trifluoromethyl)-

2H-1-benzopyran-7-yl]-L- $\alpha$ -

asparagine

Synonyms: Ac-Leu-Glu-Val-Asp-AFC,

Ac-Leu-Glu-Val-Asp-7-amino-4-

trifluormethylcoumarin

MF:  $C_{32}H_{40}F_3N_5O_{11}$ 

727.7 FW: ≥95% **Purity:** 

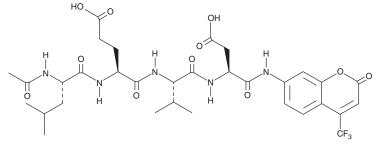
 $\lambda_{\text{max}}$ : 234, 340 nm UV/Vis.:

 $\lambda_{\text{max}}$ : 400/505 nm, respectively Ex./Em. Max.:

A crystalline solid Supplied as:

Storage: -20°C Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



## **Laboratory Procedures**

Ac-LEVD-AFC is supplied as a crystalline solid. A stock solution may be made by dissolving the Ac-LEVD-AFC in the solvent of choice, which should be purged with an inert gas. Ac-LEVD-AFC is soluble in the organic solvent DMSO at a concentration of approximately 10 mg/ml.

### Description

Ac-LEVD-AFC is a fluorogenic substrate for caspase-4.<sup>1,2</sup> Upon enzymatic cleavage by caspase-4, 7-amino-4-trifluoromethylcoumarin (AFC) is released and its fluorescence can be used to quantify caspase-4 activity. AFC displays excitation/emission maxima of 400/505 nm, respectively.

### References

- 1. Koehn, S., Trueck, M., Poerhlmann, T.G., et al. Assessment of caspase-4 released free AFC by RP-HPLC and fluorescence detection. J. Chromatogr. B. Analyt. Technol. Biomed. Life Sci. 874(1-2), 111-114 (2008).
- Pallett, M.A., Crepin, V.F., Serafini, N., et al. Bacterial virulence factor inhibits caspase-4/11 activation in intestinal epithelial cells. Mucosal Immunol. 10(3), 602-612 (2017).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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### **CAYMAN CHEMICAL**

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM