

Product Data Sheet

Product Name: H-D-Val-Leu-Lys-AFC TFA

Cat. No.: GC81836

Chemical Properties

Cas. No.

Formula $C_{27}H_{38}F_3N_5O_5 \cdot xC_2HF_3O_2$ M.Wt 569.62

Solubility DMSO: ≥ 100 mg/mL Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

H-D-Val-Leu-Lys-AFC TFA (Plasmin substrate TFA) is a plasmin -specific fluorescent substrate. H-D-

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

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Val-Leu-Lys-AFC TFA can be cleaved to generate a fluorescent signal, which is used to determine plasmin activity. Abs/Em=380/500 nm [1].

In Vitro, H-D-Val-Leu-Lys-AFC TFA (6 μ M; 30 min) enables quantitative detection of plasmin activity generated by Enterococcus faecalis-mediated activation of human glutamyl plasminogen in the presence of uPA, and the measured activity correlates with bacterial concentration[1].

References:

[1]. Jacobson RA, et al. Enterococcus faecalis exploits the human fibrinolytic system to drive excess collagenolysis: implications in gut healing and identification of druggable targets. Am J Physiol Gastrointest Liver Physiol. 2020 Jan 1;318(1):G1-G9.

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