

Product Data Sheet

Product Name: Bz-VGR-AMC TFA

Cat. No.: GC79733

Chemical Properties

Cas. No.

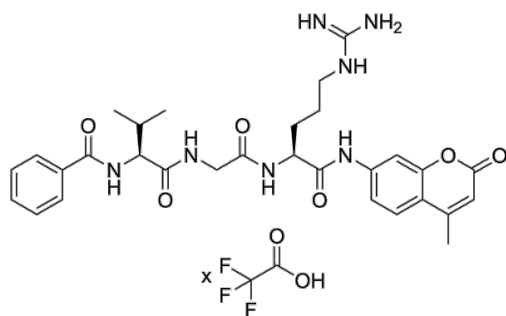
Formula $C_{30}H_{37}N_7O_6 \cdot xC_2HF_3O_2$ M.Wt 591.66

Solubility DMSO: 100 mg/mL (Need ultrasonic) 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



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

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Background

Bz-VGR-AMC TFA is a fluorescent substrate for the trypsin-like activity of the 20S proteasome. Bz-VGR-AMCTFA can be used to measure the trypsin-like (β 2) activity of the 20S proteasome (Ex/Em = 360/460 nm) [1] [2].

In Vitro, Guide (The following is our recommended protocol. This protocol is only a guide and should be modified according to your specific needs). 1. Take the tissue sample to be tested, dilute it with ddH₂O, and mix it with the reaction buffer (250 mM HEPES, pH 7.5, 5 mM EDTA, 0.5% NP-40, 0.01% SDS, 5 mM ATP). 2. Add the fluorescent peptide Bz-VGR-AMC (10 μ M) TFA to the sample. 3. Incubate the reaction at 37°C for 30 minutes. 4. Monitor the fluorescence on a fluorescence microplate reader at a wavelength of Ex/Em = 360/460 nm.

References:

- [1]. Zhong YL, et al. Celastrol induce apoptosis of human multiple myeloma cells involving inhibition of proteasome activity. Eur J Pharmacol. 2019 Jun 15;853:184-192.
- [2]. Jarome TJ, et al. CaMKII, but not protein kinase A, regulates Rpt6 phosphorylation and proteasome activity during the formation of long-term memories. Front Behav Neurosci. 2013 Aug 30;7:115.

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