

## Product Data Sheet

Product Name: Ac-YVAD-AFC

Cat. No.: GC13326

### Chemical Properties

Cas. No. 219137-85-6

Chemical Name (4S,7S,10S,13S)-4-(4-hydroxybenzyl)-7-isopropyl-10-methyl-2,5,8,11-tetraoxo-13-((2-oxo-4-(trifluoromethyl)-2H-chromen-7-yl)carbonyl)-3,6,9,12-tetraazapentadecan-15-oic acid

SMILES CC(N[C@H](C(N[C@H](C(N[C@H](C(N[C@H](C(NC1=CC(OC(C=C2C(F)(F)F)=O)=C2C=C1)=O)CC(O)=O)=O)C)=O)C(C)C)=O)CC3=CC=C(O)C=C3)=O

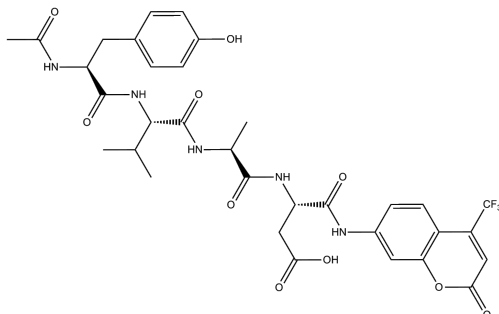
Formula  $C_{33}H_{36}F_3N_5O_{10}$  M.Wt 719.66

Solubility 10mg/ml in DMSO; 1mg/ml in DMF Storage Store at -20°C, protect from light

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

Ac-YVAD-AFC is a substrate whose amino acids YVAD have been shown to be a preferred cleavage site for caspase-1 and -4.[1],[2] Caspase activity can be quantified by fluorescent detection of free AFC (also known as 7-amino-4-trifluoromethylcoumarin), which is excited at 400 nm and emits at 505 nm.

Reference:

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

## Product Data Sheet

---

- [1]. Talanian, R.V., Quinlan, C., Trautz, S., et al. Substrate specificities of caspase family proteases. J. Biol. Chem. 272(15), 9677-9682 (1997).
- [2]. Marcelli, M., Cunningham, G.R., Haidacher, S.J., et al. Caspase-7 is activated during lovastatin-induced apoptosis of the prostate cancer cell line LNCaP. Cancer Res. 58(1), 76-83 (1998).

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

***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: [tech@glpbio.com](mailto:tech@glpbio.com)***

***Address: 10292 Central Ave. #205, Montclair, CA, USA***