

PRODUCT INFORMATION



Ac-VDVAD-AFC

Item No. 14988

CAS Registry No.: 210344-94-8

Formal Name: N-acetyl-L-valyl-L- α -aspartyl-L-valyl-L-alanyl-N-[2-oxo-4-(trifluoromethyl)-2H-1-benzopyran-7-yl]-L- α -asparagine

Synonyms: N-Acetyl-Val-Asp-Val-Ala-Asp-7-amino-4-Trifluoromethylcoumarin, N-Acetyl-Val-Asp-Val-Ala-Asp-AFC, Caspase-2 Substrate (Fluorogenic)

MF: $C_{33}H_{41}F_3N_6O_{12}$

FW: 770.7

Purity: $\geq 95\%$

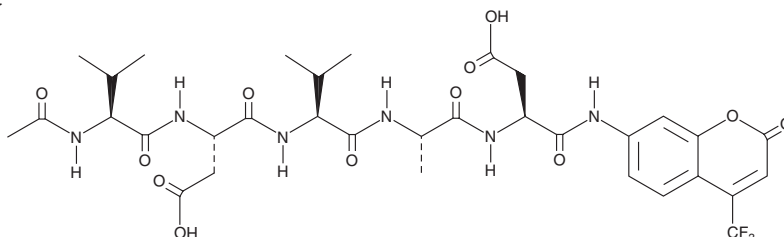
UV/Vis.: λ_{max} : 208, 232, 341 nm

Ex./Em. Max: 400/505 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥ 2 years



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

Laboratory Procedures

Ac-VDVAD-AFC is supplied as a crystalline solid. A stock solution may be made by dissolving the Ac-VDVAD-AFC in the solvent of choice. Ac-VDVAD-AFC is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of Ac-VDVAD-AFC in these solvents is approximately 10 mg/ml.

Description

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

References

1. Moriya, R., Uehara, T., and Nomura, Y. Mechanism of nitric oxide-induced apoptosis in human neuroblastoma SH-SY5Y cells. *FEBS Lett.* **484**(3), 253-260 (2000).
2. Talanian, R.V., Quinlan, C., Trautz, S., *et al.* Substrate specificities of caspase family proteases. *J. Biol. Chem.* **272**(15), 9677-9682 (1997).

WARNING

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

SAFETY DATA

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.

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