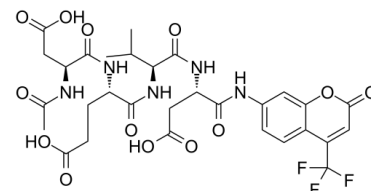


Data Sheet

| | |
|---------------------------|---|
| Product Name: | Ac-DEVD-AFC |
| Cat. No.: | CS-7683 |
| CAS No.: | 201608-14-2 |
| Molecular Formula: | C30H34F3N5O13 |
| Molecular Weight: | 729.61 |
| Target: | Others |
| Pathway: | Others |
| Solubility: | DMSO : ≥ 50 mg/mL (68.53 mM); H ₂ O : < 0.1 mg/mL (insoluble) |



BIOLOGICAL ACTIVITY:

Ac-DEVD-AFC is a fluorogenic substrate ($\lambda_{ex}=400$ nm, $\lambda_{em}=530$ nm). **In Vitro:** After incubation with Ac-DEVD-AFC for 1 hour, significant increase of caspase-3 activity is observed at 4 hour compare with control. There are no significant increases of caspase-3 activity in Photofrin and LPLI group. The cleavage of Ac-DEVD-AFC in response to caspase-3 activation is remarkably inhibited by shRNA-BimL transfection^[1].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: ^[1] For the detection of caspase-3 activity, PBS washes cell pellets (derive from either the medium or the adherent cells) which are suspended in extract buffer [25 mM HEPES (pH7.4), 0.1% TritonX-100, 10% glycerol, 5 mM DTT, 1mM phenylmethylsulfonyl fluoride, 10 mg/mL pepstatin, and 10 mg/mL Leupeptin] and vortexed vigorously. 20 μ l of extract (corresponding to 10% of the sample) are incubated with the caspase-3 fluorogenic substrates Ac-DEVD-AFC at 100 μ M final concentration at room temperature, and caspase-3 activity is measured continuously by monitoring the release of fluorogenic AFC at 37°C^[1].

References:

[1]. Wang X, et al. Involvement of Bim in Photofrin-mediated photodynamically induced apoptosis. Cell Physiol Biochem. 2015;35(4):1527-36.

CAIndexNames:

L- α -Asparagine, N-acetyl-L- α -aspartyl-L- α -glutamyl-L-valyl-N-[2-oxo-4-(trifluoromethyl)-2H-1-benzopyran-7-yl]-

SMILES:

FC(F)(C(C1=CC=C(NC([C@H](CC(O)=O)NC([C@H](C(C)C)NC([C@H](CCC(O)=O)NC([C@@H](NC(C)=O)CC(O)=O)=O)=O)=O)=O)=O)C=C1O2)=CC2=O)F

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

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