



## PRODUCT DATA SHEET

### **Product:** Ac-DEVD-CHO (Caspase-3/ CPP32 Inhibitor-CHO)

**Cat. No.:** AB-025 (5 mg)

**Chemical Name:**

Acetyl-Asp-Glu-Val-Asp-CHO

**Formula:**

C<sub>20</sub>H<sub>30</sub>N<sub>4</sub>O<sub>11</sub>

**Molecular Weight:**

502

**Description:**

White solid. Peptide-aldehyde inhibitor of caspases.

**Introduction:**

Caspase-3/ CPP32 is a member of the cysteine proteases family involved in apoptosis induction. All apoptotic pathways studied to date involve proteolytic activation of Caspase-3/ CPP32 as a central event in the progression of cell death. Although the death-inducing consequences of Caspase-3/ CPP32 activation have not been conclusively established, several crucial substrates for the protease have been identified in vitro, including DNA-dependent protein kinase, Poly(ADP-ribose) Polymerase (PARP), Replication factor C, and Gelsolin. These substrates are involved in the later stages of apoptosis, strongly suggesting that Caspase-3/ CPP32 has a key role in promoting the final processes leading to cell death.

**Specificity:**

Ac-DEVD-CHO is a reversible inhibitor of caspase-3 (IC<sub>50</sub>=200 nM). It will also inhibit caspase-6, caspase-7, caspase-8 and caspase-10. Inhibition of caspases in cell extracts. Methylated peptide-FMK inhibitors (eg. Caspase -3/ CPP32 Inhibitor, Cat. No. AB-003) are superior for use on live cells.

**Purity:**

>98% by HPLC.

**Solubility:**

Soluble in both DMSO and water.

**Protocol:**

It is recommended that stock solutions be prepared in high-purity DMSO (>99.9%), and then diluted into aqueous medium. Stock solutions should not be stored.

**Storage and Stability:**

Store at -20°C, desiccated. Stable for 1 year when stored as recommended.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. **KAMIYA BIOMEDICAL COMPANY** is not liable for any damage, personal injury, or economic loss caused by this product.