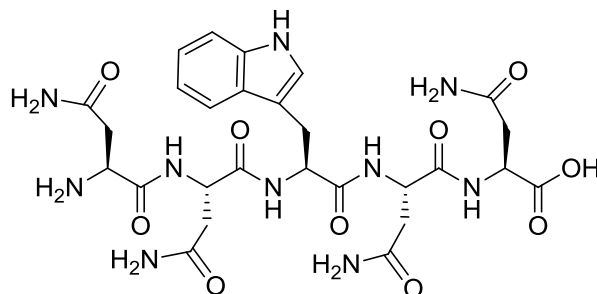


## Extracellular Death Factor

Code No.: **BIA-E1377**

Pack sizes: **1 mg, 5 mg**



Synonyms : EDF

### Specifications

CAS #	: 960129-66-2
Molecular Formula	: C <sub>27</sub> H <sub>36</sub> N <sub>10</sub> O <sub>10</sub>
Molecular Weight	: 660.6
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

### Application Notes

Extracellular Death Factor (EDF) is the dramatic name given to an interesting linear pentapeptide produced by *E. coli*, first identified by Engelberg-Kulka and colleagues in 2007 and published in *Science*. EDF acts as a quorum sensing agent, regulating bacterial cell density by balancing the levels of toxin and antitoxin via mazEF-mediated cell death genes.

### References

1. A linear pentapeptide is a quorum-sensing factor required for mazEF-mediated cell death in *Escherichia coli*. Kolodkin-Gal I. et al. *Science* 2007, 318, 652.

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