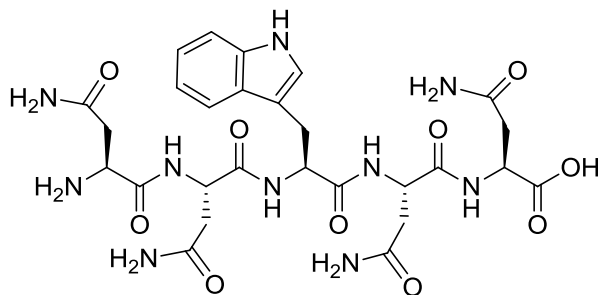


## Extracellular Death Factor

Code No.: **BIA-E1377**

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



Synonyms : EDF

### Specifications

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

### Application Notes

Extracellular Death Factor (ECF) 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*. ECF 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.