



Extracellular Death Factor PRODUCT DATA SHEET

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| Product Name: | Extracellular Death Factor |
| Product Number: | E059 |
| CAS Number: | 960129-66-2 |
| Molecular Formula: | $C_{27}H_{36}N_{10}O_{10}$ |
| Molecular Weight: | 660.6 |
| Appearance: | White solid |
| Storage Conditions: | -20°C |
| Description: | <p>Extracellular Death Factor (EDF) is the dramatic name given to an interesting linear pentapeptide produced by <i>E. coli</i>, first identified by Engelberg-Kulka and colleagues in 2007 and published in <i>Science</i>.</p> <p>EDF is soluble in ethanol, methanol, DMF or DMSO. Good water solubility.</p> |
| Mechanism of Action: | <p>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.</p> |
| References: | <p>A linear pentapeptide is a quorum-sensing factor required for mazEF-mediated cell death in <i>Escherichia coli</i>. Kolodkin-Gal I. et al. <i>Science</i> 2007, 318, 652.</p> |

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