

<b>Product Name:</b>	Extracellular Death Factor
<b>Product Number:</b>	E059
<b>CAS Number:</b>	960129-66-2
<b>Molecular Formula:</b>	$C_{27}H_{36}N_{10}O_{10}$
<b>Molecular Weight:</b>	660.6
<b>Appearance:</b>	White solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	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 Science.
<b>Mechanism of Action:</b>	EDF is soluble in ethanol, methanol, DMF or DMSO. Good water solubility. 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.
<b>References:</b>	A linear pentapeptide is a quorum-sensing factor required for mazEF-mediated cell death in <i>Escherichia coli</i> . Kolodkin-Gal I. et al. Science 2007, 318, 652.