Data Sheet (Cat.No.T36523L)

TargetMol

Extracellular Death Factor TFA

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Extracellular Death Factor TFA (EDF TFA) is a linear pentapeptide that is produced and released by communicating cells and activates cell death pathways in cellular subpopulations when sufficient concentrations are reached.EDF TFA is sensitive to extreme pH, high temperatures, and other stressful conditions. At a concentration of 2.5 ng/ml, EDF has been shown to promote mazeEF (toxin-antitoxin system within bacteria) mediated cell death, promote the endonuclease activity of MazF toxin, lead to degradation of bacterial mRNA, and significantly reduce population size in E. coli cultures.
Targets(IC50)	Antibacterial
In vitro	Tryptophan may be a key residue in the hydroxyl radical scavenging activity of Extracellular Death Factor TFA, which can protect Escherichia coli from killing by bactericidal antibiotics but not from DNA damage or killing by bacteriostatic antibiotics. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Yan Z, et al. The extracellular death factor (EDF) protects Escherichia coli by scavenging hydroxyl radicals induced by bactericidal antibiotics. Springerplus. 2015 Apr 16;4:182.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481