

Competence-Stimulating Peptide-2 (CSP-2)

Cat. No.:	HY-P2522
CAS No.:	1174553-84-4
Molecular Formula:	C ₁₀₁ H ₁₇₂ N ₂₈ O ₂₃ S
Molecular Weight:	2178.69
Sequence Shortening:	EMRISRIILDFLFLRKK
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Stored under nitrogen, away from moisture
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)

BIOLOGICAL ACTIVITY

Description

Competence-Stimulating Peptide-2 (CSP-2) is a quorum sensing signal peptide produced by *Streptococcus pneumoniae*. ComD2 is a compatible receptor of Competence-Stimulating Peptide-2 (CSP-2) with an EC₅₀ value of 50.7 nM^[1].

REFERENCES

[1]. Yifang Yang, et al. Structural Characterization of Competence-Stimulating Peptide Analogues Reveals Key Features for ComD1 and ComD2 Receptor Binding in *Streptococcus pneumoniae*. *Biochemistry*. 2018 Sep 11;57(36):5359-5369.

Caution: Product has not been fully validated for medical applications. For research use only.

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