

HS-291

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: 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	HS-291, a HtpG inhibitor targeting <i>Borrelia burgdorferi</i> (Bb), comprises BX-2819 (high affinity for Bb HtpG), a PEG linker, and Verteporfin (a photoactive toxin). Upon light activation, HS-291 generates reactive oxygen species that oxidize HtpG and selectively inactivate nearby proteins, leading to the rapid and irreversible inactivation of Bb [1].
Targets(IC50)	Antibacterial, ROS Kinase
In vitro	HS-291, at concentrations ranging from 0.1 to 10 μ M and with a 24-hour treatment period, suppresses the cultured activity of Bb when excited by near-infrared radiation (nrIR) at an excitation (Ex) wavelength of 693 nm and an energy density of 5 J/cm ² [1].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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