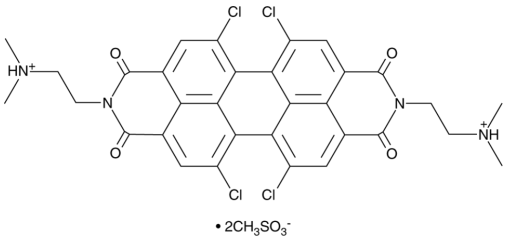
Product Data Sheet

Product Name: PDIC-NS
Cat. No.: GC91820

Chemical Properties

Cas. No.	N/A		
Formula	$C_{32}H_{26}Cl_4N_4O_4 \cdot 2CH_3SO_3$	M.Wt	862.6
Solubility	DMSO: soluble,Water: slightly soluble	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

PDIC-NS is an activator of stimulator of interferon genes (STING).[1] It increases the levels of reactive oxygen species (ROS) and induces apoptosis in LL/2 lung carcinoma cells when used at a concentration of 2.5 µM. PDIC-NS (2.5 µM) induces cell cycle arrest at the S phase, increases cytosolic levels of mitochondrial DNA (mtDNA), and increases levels of phosphorylated TANK-binding kinase 1 (Tbk1), interferon regulating factor 3 (Irf3), and STING in, as well as increases secretion of 2',3'-cGAMP and ATP from, LL/2 cells. It decreases tumor volume and weight and increases the percentage of intratumoral M1 macrophages and mature dendritic cells in an LL/2 mouse xenograft model when administered at a dose of 2 mg/kg twice per day. PDIC-NS (2.5 mg/kg twice per day) reduces lung weight and the number of lung metastases in wild-type and *Sting1*$^{-/-}$

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mice in an LL/2 model of lung metastasis. It also increases serum levels of Ifn-β, Ifn-γ, Tnf-α, and chemokine (C-X-C motif) ligand 10 (Cxcl10), as well as increases the percentage of intratumoral $CD4^+$, $CD8^+$, and $CD38^+$ T cells, in wild-type mice, and, to a lesser extent, in *Sting1*$^{-/-}$ mice, in the same model.

References:

[1].Zhao, X., Zheng, R., Zhang, B., et al.Sulfonated perylene as three-in-one STING agonist for cancer chemo-immunotherapyAngew. Chem. Int. Ed. Engl.63(11)e202318799(2024).

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