

Product Data Sheet

Product Name: PDIC-NS

Cat. No.: GC91820

Chemical Properties

Cas. No. N/A

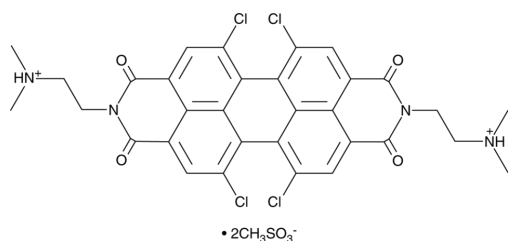
Formula $C_{32}H_{26}Cl_4N_4O_4 \cdot 2CH_3SO_3$ M.Wt 862.6

Solubility DMSO: soluble, Water: slightly soluble Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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 $2.5 \mu M$. PDIC-NS ($2.5 \mu M$) 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 *Sting*^{1-/-}

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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).

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