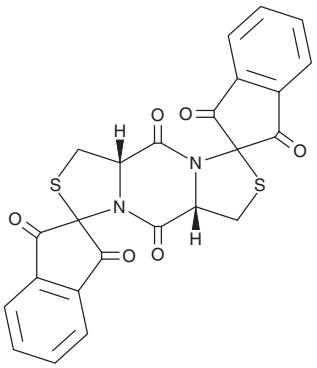
PRODUCT INFORMATION

DSDP

Item No. 30156

CAS Registry No.:	1777807-64-3
Formal Name:	(5′aS,10′aS)-1′,5′a,6′,10′a-tetrahydro-dispiro[2H-indene-2,3′-[3H,5H,8H,10H]bisthiazolo[3,4-a:3′,4′-d]pyrazine-8′,2”-[2H]indene]-1,1”,3,3”,5′,10′-hexone
Synonym:	ZINC03129319
MF:	$C_{24}H_{14}N_2O_6S_2$
FW:	490.5
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

DSDP is supplied as a solid. A stock solution may be made by dissolving the DSDP in the solvent of choice, which should be purged with an inert gas. DSDP is soluble in the organic solvent DMSO.

Description

DSDP is an activator of stimulator of interferon genes (STING).[1] It induces expression of an IFN-stimulated gene 54 (ISG54) luciferase reporter in HepAD38 cells that constitutively express human cyclic GMP-AMP synthase (cGAS) and STING. DSDP (50 µM) increases *IFNB1*, *TNFA*, and *IL29* expression in HepG2 cells expressing wild-type human, but not C-terminal truncated human or mouse, STING, as well as in isolated human peripheral blood mononuclear cells (PBMCs). It inhibits yellow fever, dengue, and Zika virus replication in THF fibroblasts at the same concentration.

Reference

1. Liu, B., Tang, L., Zhang, X., *et al.* A cell-based high throughput screening assay for the discovery of cGAS-STING pathway agonists. *Antiviral Res.* **147**, 37-46 (2017).

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