LKT Laboratories, Inc.

Suramin Hexasodium

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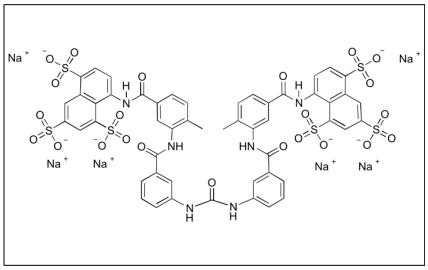
Product Information

Product ID S8169

CAS No. 129-46-4

Chemical Name 8,8'-[Carbonylbis[imino-3,1-phenylenecarbonylimino- (4-methyl-3,1-phenylene)-carbonylimino]]bis-1,3,5- naphthalenetrisulfonic acid hexasodium salt

Synonym Suramin Sodium, Bayer 205, Antrypol, Germanin, Moranyl, Naganol, Naphuride



Formula $C_{51}H_{34}N_6O_{23}S_6Na_6$

Formula Wt. 1429.19

Melting Point

Purity ≥98%

Solubility Soluble in water. Sparingly soluble in alcohol. Insoluble in benzene, ether or chloroform.

Store Temp 4°C

Ship Temp Ambient

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
S8169	50 mg	$107.20
S8169	250 mg	$436.80

Description Suramin is an inhibitor of GPCRs; it prevents guanine nucleotide exchange. Suramin inhibits SIRT, telomerase, and P2Y receptors; it also acts as an agonist at Ryanodine (RyR) receptors. Suramin exhibits anticancer, neuromodulatory, neuroprotective, antiviral, anti-parasitic, and antimalarial activities. In glioma cells, suramin inhibits cell proliferation and spheroid growth. This compound inhibits proliferation of enterovirus EV71 by preventing viral attachment to host cells. Additionally, suramin inhibits falcipain-2 activity in *Plasmodium*.

References

Wang Y, Qing J, Sun Y, et al. Suramin inhibits EV71 infection. Antiviral Res. 2014 Mar;103:1-6. PMID: 24374150.

Marques AF, Esser D, Rosenthal PJ, et al. Falcipain-2 inhibition by suramin and suramin analogues. Bioorg Med Chem. 2013 Jul 1;21(13):3667-73. PMID: 23680445.

Sakkiah S, Arooj M, Kumar MR, et al. Identification of inhibitor binding site in human sirtuin 2 using molecular docking and dynamics simulations. PLoS One. 2013;8(1):e51429. PMID: 23382805.

Erguven M, Akev N, Ozdemir A, et al. The inhibitory effect of suramin on telomerase activity and spheroid growth of C6 glioma cells. Med Sci Monit. 2008 Aug;14(8):BR165-73. PMID: 18667993.

Abbracchio MP, Burnstock G, Boeynaems JM, et al. International Union of Pharmacology LVIII: update on the P2Y G protein-coupled nucleotide receptors: from molecular mechanisms and pathophysiology to therapy. Pharmacol Rev. 2006 Sep;58(3):281-341. PMID: 16968944.

Wolner I, Kassack MU, Ullmann H, et al. Use-dependent inhibition of the skeletal muscle ryanodine receptor by the suramin analogue NF676. Br J Pharmacol. 2005 Oct;146(4):525-33. PMID: 16056233.

Beindl W, Mitterauer T, Hohenegger M, et al. Inhibition of receptor/G protein coupling by suramin analogues. Mol Pharmacol. 1996 Aug;50(2):415-23. PMID: 8700151.