

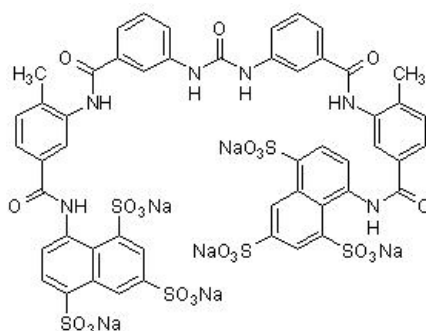
Product datasheet

Suramin hexasodium salt, non-selective P2 purinergic antagonist ab120422

2 References 1 Image

Overview

Product name	Suramin hexasodium salt, non-selective P2 purinergic antagonist
Description	Non-selective P2 purinergic antagonist
Biological description	Non-selective P2 purinergic antagonist (pEC ₅₀ values are 4.5 (P2X ₂), 5.4 (P2X ₅), 4.3 (P2Y ₂), 4.0 (P2Y ₄) and 4.8 (P2Y ₁₁)). Displays diverse biological actions. Shows antitumor activity, inhibits binding of multiple growth factors and additionally inhibits glutamatergic synaptic transmission.
Purity	> 99%
CAS Number	129-46-4
Chemical structure	



Properties

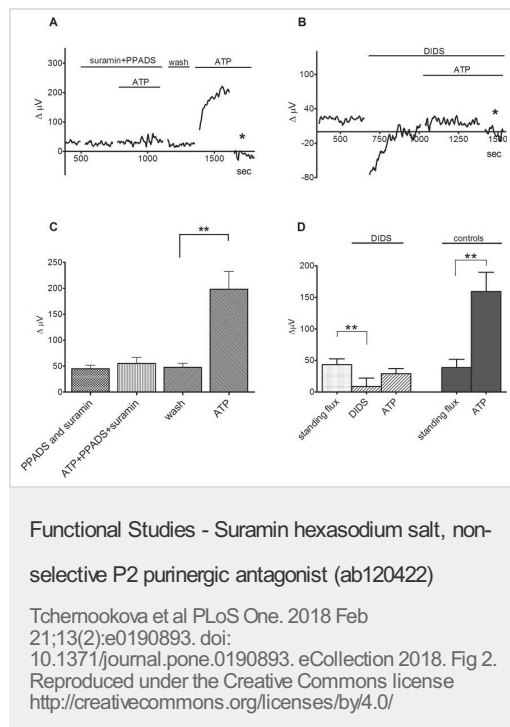
Chemical name	8,8'-[Carbonylbis[imino-3,1-phenylenecarbonylimino(4-methyl-3,1-phenylene)carbonylimino]]bis-1,3,5-naphthalenetrisulfonic acid hexasodium salt
Molecular weight	1429.16
Molecular formula	C ₅₁ H ₃₄ N ₆ Na ₆ O ₂₃ S ₆
Storage instructions	Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

Source

Synthetic

Images



Inhibition by suramin, PPADS and DIDS significantly reduces the ATP-induced increase in extracellular H⁺ flux from isolated Müller cells.

(A) A representative trace from a single Müller cell shows a significant increase in H⁺ flux in response to 10 μ M ATP that is significantly reduced by the ATP receptor blockers 200 μ M PPADS and 200 μ M suramin; asterisk indicates a background control reading. (B) 300 μ M DIDS, which inhibits anion transport, significantly reduces the increase in H⁺ flux in response to 10 μ M ATP. (C) Mean responses to 10 μ M ATP with or without suramin and PPADS in the bath; N = 7, error bars represent SEMs. (D) Mean responses to 10 μ M ATP in the presence of 300 μ M DIDS (N = 6) and in the absence of DIDS, N = 5 (controls).

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