

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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PRODUCT INFORMATION



Hypericin

Item No. 11334

CAS Registry No.:	548-04-9	он
Formal Name:	1,3,4,6,8,13-hexahydroxy-10,11-dimethyl-	L I
	phenanthro[1,10,9,8-opqra]perylene-7,14-dione	
Synonym:	NSC 407313	
MF:	C ₃₀ H ₁₆ O ₈	но
FW:	504.5	
Purity:	≥95%	HO
UV/Vis.:	λ _{max} : 217, 286, 328, 385, 476, 511, 548, 591 nm	
Supplied as:	A crystalline solid	
Storage:	-20°C	
Stability:	≥2 years	ÓH Ű

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

Laboratory Procedures

Hypericin is supplied as a crystalline solid. A stock solution may be made by dissolving the hypericin in the solvent of choice. Hypericin is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of hypericin in these solvents is approximately 30 mg/ml. Hypericin is also slightly soluble in ethanol.

Hypericin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, hypericin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Hypericin has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

An anthroquinone derivative that is naturally found in the flower of H. perforatum (St. John's wort) and has antidepressant, antiviral, and anti-cancer activities.^{1,2} Hypericin inhibits neuronal uptake of serotonin, norepinephrine, dopamine, GABA and L-glutamate, contributing to its antidepressant effects.³ It exerts broad spectrum phototoxic affects (IC₅₀ = 140-1,570 nM) through induction of apoptotic signaling and formation of reactive oxygen species (ROS) in cancer cells.⁴ Hypericin also has in vitro activity, which can be enhanced with photo-activation, against a variety of viruses including HIV, influenza virus, hepatitis C, murine cytolomegalovirus, and herpes viruses.⁵

References

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- 2. Jendželovská, Z., Jendželovský, R., Kuchárová, B., et al. Hypericin in the light and in the dark: Two sides of the same coin. Front. Plant Sci. 7(560), (2016).
- 3. Butterweck, V., Christoffel, V., Nahrstedt, A., et al. Step by step removal of hyperforin and hypericin: Activity profile of different Hypericum preparations in behavioral models. Life Sci. 73(5), 627-639 (2003).
- 4. Momekov, G.F., D., Zheleva-Dimitrova, D., Nedialkov, P., et al. Cytotoxic effects of hyperatomarin, a prenylated phloroglucinol from Hypericum annulatum Moris subsp. annulatum, in a panel of malignant cell lines. Phytomedicine 15(11), 1010-1015 (2008).
- 5. Jacobson, J.M., Feinman, L., Liebes, L., et al. Pharmacokinetics, safety, and antiviral effects of hypericin, a derivative of St. John's wort plant, in patients with chronic hepatitis C virus infection. Antimicrob. Agents and Chemother. 45(2), 517-524 (2001).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

al should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution

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