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DATASHEET

Acridine Orange hydrochloride

Product overview

Name	Acridine Orange hydrochloride
Cat No	HB0699
Alternative names	Rhoduline Orange
Biological description	Cell permeable fluorescent nucleic acid binding dye. Binds to both RNA and DNA producing fluorescence in variety of colours. Inhibits mitosis. Displays anticancer properties under photon energy.
Biological action	Dyes & stains
Purity	>98%
Description	Cell permeable fluorescent nucleic acid binding dye

Images



Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (100mM) and DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	3,6-Bis(dimethylamino)acridine hydrochloride
Molecular Weight	301.81
Chemical structure	
Molecular Formula	C ₁₇ H ₁₉ N ₃ .HCl
CAS Number	65-61-2
PubChem identifier	517204
SMILES	CN(C)C1=CC=C2C(N=C(G=C(N(C)C)C=C3)C3=C2)=C1.Cl
InChiKey	VSTHNGLPBTRMB-UHFFFAOYSA-N
Appearance	Red solid

References

Urinary cytology with acridine orange fluorescence is highly valuable for predicting high-grade upper urinary tract urothelial carcinoma.

Li J *et al* (2014) *Int J Clin Exp Pathol* 7(2)

PubMedID [24551302](#)

Review. Acridine orange could be an innovative anticancer agent under photon energy.

Kusuzaki K *et al* (2007) *In Vivo* 21(2)

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Acridine orange induces binucleation in chondrocytes.

Kusuzaki K *et al* (2001) *Osteoarthritis Cartilage* 9(2)

PubMedID [11237661](#)
