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DATASHEET

Acridine Orange hydrochloride

Product overview

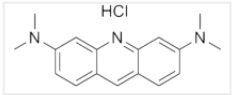
Name	Acridine Orange hydrochloride
Cat No	HB0699
Alternative names	Rhoduline Orange
Biological description	Cell permeable fluorescent nucleic acid binding dye. Binds to both RNA and DNA producing florescence in variety of colours. Inhibits mitosis. Displays anticancer properties under photon energy.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

Images

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Souble 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(C=C(N(C)C)C=C3)C3=C2)=C1.Cl
InChiKey	VSTHNGLPHBTRMB-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)
PubMedID 17436568

Acridine orange induces binucleation in chondrocytes.

Kusuzaki K *et al* (2001) Osteoarthritis Cartilage 9(2)
PubMedID 11237661