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## DATASHEET

### Acridine Orange hydrochloride

#### Product overview

|                               |                                                                                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                   | Acridine Orange hydrochloride                                                                                                                                                                      |
| <b>Cat No</b>                 | HB0699                                                                                                                                                                                             |
| <b>Alternative names</b>      | Rhoduline Orange                                                                                                                                                                                   |
| <b>Biological description</b> | 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. |
| <b>Biological action</b>      | Dyes & stains                                                                                                                                                                                      |
| <b>Purity</b>                 | >98%                                                                                                                                                                                               |
| <b>Description</b>            | Cell permeable fluorescent nucleic acid binding dye                                                                                                                                                |

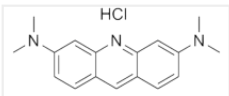
#### Images



#### Solubility & Handling

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

#### Chemical Data

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 3,6-Bis(dimethylamino)acridine hydrochloride                                        |
| <b>Molecular Weight</b>   | 301.81                                                                              |
| <b>Chemical structure</b> |  |
| <b>Molecular Formula</b>  | C <sub>17</sub> H <sub>19</sub> N <sub>3</sub> .HCl                                 |
| <b>CAS Number</b>         | 65-61-2                                                                             |
| <b>PubChem identifier</b> | 517204                                                                              |
| <b>SMILES</b>             | CN(C)C1=CC=C2C(N=C(C=C(N(C)C)C=C3)C3=C2)=C1.Cl                                      |
| <b>InChIKey</b>           | VSTHNGLPBTRMB-UHFFFAOYSA-N                                                          |
| <b>Appearance</b>         | 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](#)

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