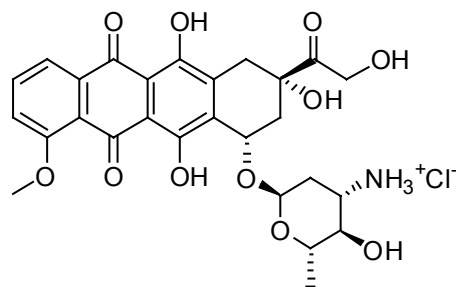


Adriamycin hydrochloride

Code: **BIA-A1202**

Pack sizes: **25 mg, 100 mg**



Synonyms : **Doxorubicin hydrochloride**

Specifications

CAS #	: 25316-40-9
Molecular Formula	: C₂₇H₃₀ClHO₁₁
Molecular Weight	: 579.1
Source	: <i>Streptomyces peucetius</i> MST-AS5775
Appearance	: Orange red solid
Purity	: > 99%
Long Term Storage	: - 20°C
Solubility	: Soluble in water, methanol, DMSO with moderate ethanol solubility.

Application Notes

Adriamycin hydrochloride has been formulated as a salt to achieve higher water solubility. While the salt shares the same pharmacological properties as adriamycin free base, its greater water solubility may offer advantages in some *in vitro* applications. Physio-chemical properties and chromatographic behaviour will depend on whether the pH is buffered or controlled applications. In non-pH controlled systems the free base and salt may behave differently.

References

1. Adriamycin (14-hydroxydaunomycin), a novel antitumor antibiotic. Arcamone F. et al., Tet. Letters 1969, 13, 1007.
2. Interference by doxorubicin with DNA unwinding in MCF-7 breast tumor cells. Fornari F.L. et al., Mol. Pharmacology 1994, 45, 649.
3. Effect of Adriamycin on DNA, RNA, and protein synthesis in cell-free systems and intact cells. Momarier R. et al., Cancer Research 1976, 36, 2891.