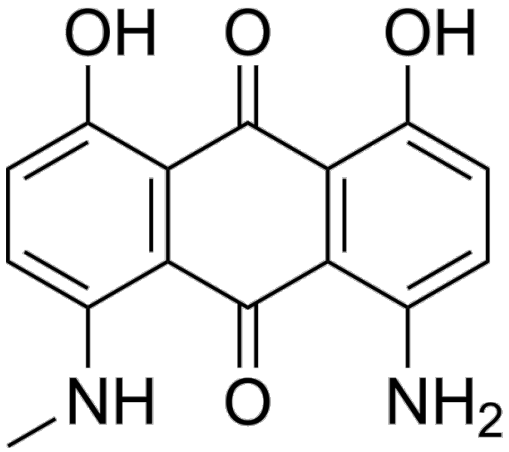
Product Data Sheet

Product Name: Mono N-desmethyl disperse polyester dark blue
Cat. No.: GC81577

Chemical Properties

Cas. No.	56524-77-7		
Formula	$C_{15}H_{12}N_2O_4$	M.Wt	284.27
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Mono N-Desmethyl Disperse Polyester Dark Blue is a bioreductive agent that is activated under hypoxic conditions. Once inside a cell, it is reduced to its active form, which generates reactive oxygen species that can damage cellular components, including DNA. This damage can lead to cell death, particularly in hypoxic cancer cells that are already under stress. It has also been shown to inhibit the activity of hypoxia-inducible factor 1 (HIF-1), which is a key regulator of the cellular response to hypoxia.

References:

Caution: Product has not been fully validated for medical applications. For research use only.
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[1]. Peters, A. T.; Ma, Xisai. Methylated derivatives of 1,5-diamino-4,8-dihydroxyanthraquinone and 1,8-diamino-4,5-dihydroxyanthraqinone - blue dyes for synthetic polymer fibers. Journal of the Society of Dyers and Colourists (1992), 108(7-8), 344-8.

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