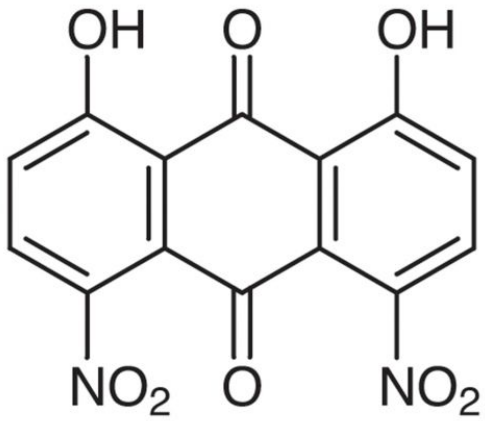
Product Data Sheet

Product Name: 1,8-Dihydroxy-4,5-dinitroanthraquinone
Cat. No.: GD09933

Chemical Properties

Cas. No.	81-55-0		
Formula		M.Wt	
Solubility	DMSO : 41.67 mg/mL (126.19 mM; ultrasonic and warming and heat to 60°C)	Storage	2-8°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

1,8-Dihydroxy-4,5-dinitroanthraquinone (ARDP0006; DHDNE) is a potent inhibitor of serine proteinase NS2B/3, the dengue viral protein. 1,8-Dihydroxy-4,5-dinitroanthraquinone has intermolecular proteinase activity and viral inhibition ability with IC50s of 432 渭M and 4.2 渭M, respectively. Meanwhile 1,8-Dihydroxy-4,5-dinitroanthraquinone inhibits NS2B/3 cleavage in BHK-21 cells at a dose ranging from 4.2 渭M to 432 渭M.

1,8-Dihydroxy-4,5-dinitroanthraquinone (25 渭M; 12-48 h) inhibits extracellular and intracellular

dengue virus growth in BHK-21 cells[1].
1,8-Dihydroxy-4,5-dinitroanthraquinone (50 渭M-2 mM; 90 min) inhibits NS2B/3 cleavage, and significantly and dramatically acts function at 100 渭M in BHK-21 cells[1].

[1]. Constant DA, et al. Targeting intramolecular proteinase NS2B/3 cleavages for trans-dominant inhibition of dengue virus. Proc Natl Acad Sci U S A. 2018 Oct 2;115(40):10136-10141.