

## Chlorophyll a

## Chemical Properties

CAS No. :	479-61-8
Formula:	C <sub>55</sub> H <sub>72</sub> MgN <sub>4</sub> O <sub>5</sub>
Molecular Weight:	893.49
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Chlorophyll a is a crucial pigment found in phytoplankton; it serves as a key indicator for monitoring red tides and is also used as a coloring agent in soaps, mineral oils, waxes, and essential oils. Chlorophyll a exhibits cytotoxicity toward HEL and KB cells, with ED <sub>50</sub> values of 21.4 μM and 24.4 μM, respectively.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1192 mL	5.596 mL	11.1921 mL
5 mM	0.2238 mL	1.1192 mL	2.2384 mL
10 mM	0.1119 mL	0.5596 mL	1.1192 mL
50 mM	0.0224 mL	0.1119 mL	0.2238 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Wongsinkongman P, et al. Part 209: Pheophorbide-a derivatives as photo-Independent cytotoxic agents. Bioorg Med Chem. 2002 Mar;10(3):583-91.

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