JIANGSU KHONOR CHEMICALS CO., LIMITED

Fine Chemicals | Research Chemicals | Pharmaceutical Intermediates

TECHNICAL DATA SHEET

Chlorin e6 (Ce6) | CAS No. 19660-77-6

1 Product Description

Chlorin e6 (Ce6), CAS No. 19660-77-6, is a second-generation chlorin-type photosensitizer derived from chlorophyll degradation. Under irradiation of visible red light in the presence of oxygen, it generates reactive oxygen species and produces a photodynamic effect on target cells and microorganisms. The product is supplied as dark green powder with assay not less than 90 %, and is used for laboratory research and as pharmaceutical intermediate. It is not approved for clinical use.

2 Chemical & Physical Properties

Item	Description
Chemical Name	Chlorin e6 / Dihydrochlorin e6
CAS No.	19660-77-6
Molecular Formula	C34H36N4O6
Appearance	Dark Green Powder
Solubility	Slightly soluble in water; soluble in DMSO, DMF
Light Sensitivity	Light-sensitive; avoid strong light during handling and storage
Storage	Sealed, cool and dry place, protected from light, heat and moisture

3 Specifications

Item	Standard	Typical Result
Appearance	Dark Green Powder	Dark Green Powder
Identification	Conforms	Conforms
Assay	>= 90.0 %	90.7 %
Loss on Drying	On request	On request

4 Applications

No.	Application	Scope
1	Photodynamic therapy (PDT) research	Basic and preclinical photosensitizer study
2	Antimicrobial photodynamic research (aPDT)	Light-activated inactivation of bacteria and fungi

No.	Application	Scope
3	Fluorescence imaging and labelling	Cell and tissue imaging; tracer and probe development
4	Pharmaceutical R&D intermediate	Synthesis of photosensitizer-based compounds
5	Academic research	University, CRO and institute research projects

5 Advantages

No.	Advantage
1	Assay not less than 90 %, batch-to-batch consistency controlled
2	COA issued for each batch, together with TDS and MSDS on request
3	Dual use: research grade and pharmaceutical intermediate grade
4	Light-proof production and packaging to limit photodegradation
5	Flexible supply from milligram samples to bulk quantity
6	Technical support for R&D customers on storage and handling

6 Packaging & Storage

Item	Description
Packaging	Light-proof aluminium foil bag or aluminium can, sealed package
Sample Size	Available on request
Storage Condition	Sealed container, cool and dry place (recommended 2-8 degC for long-term storage)
Precautions	Avoid strong light, heat, moisture and repeated opening of the package
Shelf Life	12 months under recommended storage conditions
Handling	Use gloves and eye protection; avoid dust formation and inhalation

7 Regulatory Status

This product is supplied as research chemical and pharmaceutical intermediate only. It is not approved as a drug, active pharmaceutical ingredient for human use, food additive, feed additive, cosmetic ingredient or diagnostic reagent in any market. All use is limited to laboratory scientific research and synthetic intermediate development. Customers are responsible for verifying the applicable regulations of the destination country before import, resale or any further use. No therapeutic or diagnostic claim is made or implied by this document.

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