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**Product Data Sheet**

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Product Name: Glycolic acid

Cat. No.: GC31549

**Chemical Properties**

Cas. No. 79-14-1

SMILES O=C(O)COFormula C2H4O3

M.Wt 76.05

Solubility DMSO :  $\geq 100$  mg/mL (1314.92 mM)

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 **Protocol****Cell experiment:**

HM3KO pigmented human melanoma cells and B16 mouse melanoma cells are cultured in Dulbecco's modified Eagles medium supplemented with 10% fetal calf serum and appropriate amounts of antibiotics and fungizone were dissolved at a concentration of 100mg/mL in distilled water. These chemicals (e.g., Glycolic Acid ) are added to the cell cultures at final concentrations of 300 or 500 mg/mL every 2 days for 5 days[1].

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### References:

[1]. Usuki A, et al. The inhibitory effect of glycolic acid and lactic acid on melanin synthesis in melanoma cells. Exp Dermatol. 2003;12 Suppl 2:43-50.

### Background

Glycolic acid (dicarbonous acid, hydroxyacetic acid, hydroacetic acid) is the smallest alpha-hydroxy acid. Due to its excellent capability to penetrate skin, glycolic acid is often used in skin care products, most often as a chemical peel. Glycolic acid is an inhibitor of tyrosinase, suppressing melanin formation and lead to a lightening of skin colour.

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