
Product Data Sheet

Product Name: Calcium 2-oxoglutarate

Cat. No.: GC25188

Chemical Properties

Cas. No. 71686-01-6

Formula C₅H₄CaO₅

M.Wt 184.16

Solubility H₂O : 4.85 mg/mL (26.34 mM; ultrasonic and warming and adjust pH to 4 with HCl and heat to 60°C)Store
Storage 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**

Calcium 2-oxoglutarate (Calcium oxoglurate, Calcium 2-oxopentanedioate, Calcium α -ketoglutarate, Calcium AKG, Calcium 2-ketoglutaric acid, Calcium oxoglutaric acid) is the Calcium salt form of 2-oxoglutarate. 2-oxoglutarate is naturally found in organisms and is a well-known intermediate in the production of ATP or GTP in the Krebs cycle. 2-oxoglutarate is a reversible inhibitor of tyrosinase with IC₅₀ of 15 mM.

[1] Lin Gou, et al. Int J Biol Macromol. 2017 Dec;105(Pt 3):1654-1662. [2] Luciano F Huergo, Ray Dixon. Microbiol Mol Biol Rev. 2015 Dec;79(4):419-35.

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

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