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**Product Data Sheet**

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Product Name: BAPTA tetrapotassium

Cat. No.: GC67211

**Chemical Properties**

Cas. No. 73630-08-7

Formula  $C_{22}H_{20}K_4N_2O_{10}$ 

M.Wt 628.79

Solubility  $H_2O$  : 125 mg/mL (198.79 mM; Need ultrasonic) Storage Store at  $-20^{\circ}C$ 

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  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**

BAPTA is a membrane-impermeable calcium chelator that binds extracellular calcium ions.<sup>1,2</sup> The presence of four carboxylic acid functional groups allows for the binding of two calcium ions. BAPTA and its derivatives are widely used for the measurement and manipulation of intracellular free calcium concentration.

1.Sabnis, R.W.Handbook of biological dyes and stains: Synthesis and industrial applications(2010) 2.Grynkiewicz, G., Poenie, M., and Tsien, R.Y.A new generation of  $Ca^{2+}$  indicators with greatly improved fluorescence properties]. Biol. Chem.260(6)3440-3450(1985)

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

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