

Product Data Sheet

Product Name: Iso-OMPA

Cat. No.: GC75146

Chemical Properties

Cas. No. 513-00-8

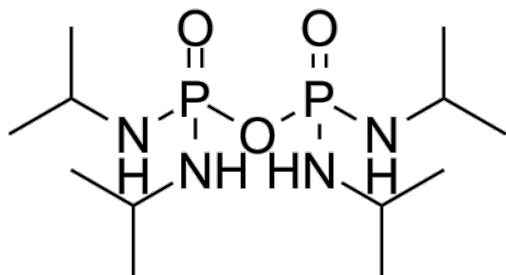
Formula $C_{12}H_{32}N_4O_3P_2$ M.Wt 342.36

Solubility DMSO: 100 mg/mL (292.09 mM; Need ultrasonic); H_2O : 10 mg/mL (29.21 mM; Need ultrasonic) Storage $-20^{\circ}C$

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

Iso-OMPA (Tetraisopropyl pyrophosphoramidate) is a selective inhibitor of the irreversible

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

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butyrylcholinesterase (BuChE). Iso-OMPA enhances soman toxicity in rats associated with the inhibition of plasma carboxylesterase (CarbE)^{[1][2][3]}.

References:

- [1]. Rodríguez-Fuentes G, et al. Characterization of cholinesterase activity from different tissues of Nile tilapia (*Oreochromis niloticus*). *Mar Environ Res.* 2004 Aug-Dec;58(2-5):505-9.
- [2]. X Norel, et al. Degradation of acetylcholine in human airways: role of butyrylcholinesterase. *Br J Pharmacol.* 1993 Apr;108(4):914-9.
- [3]. Z Grubic, et al. Iso-OMPA-induced potentiation of soman toxicity in rat correlates with the inhibition of plasma carboxylesterases. *Arch Toxicol.* 1988;62(5):398-9.

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