
Product Data Sheet

Product Name: Sonlicromanol

Cat. No.: GC63197

Chemical Properties

Cas. No. 1541170-75-5

Formula $C_{19}H_{28}N_2O_3$ M.Wt 332.44

Solubility DMSO : 25 mg/mL (75.20 mM; Need ultrasonic) Storage

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**

Sonlicromanol (KH176) is an orally active reactive oxygen species (ROS) modulator for the study in mitochondrial disease[1][2].

Sonlicromanol (KH176, 10 mg/kg, ip, twice daily) has promising, but independent and nonadditive, properties for the pharmacological treatment of CI-deficiency-related mitochondrial diseases[3].

[1]. X Jiang, et al. Mechanism of action and potential applications of selective inhibition of microsomal prostaglandin E synthase-1-mediated PGE 2 biosynthesis by sonlicromanol's metabolite KH176m. Sci Rep. 2021 Jan 13;11(1):880.

[2]. Zikai Feng, et al. Comparative In Vitro Toxicology of Novel Cytoprotective Short-Chain Naphthoquinones. Pharmaceuticals (Basel). 2020 Aug 7;13(8):184.

[3]. Sanne J C M Frambach, et al. Effects of clofibrate and KH176 on life span and motor function in mitochondrial complex I-deficient mice. Biochim Biophys Acta Mol Basis Dis. 2020 Jun 1;1866(6):165727.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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