

Product Data Sheet

Product Name: NPBA
Cat. No.: GC70811

Chemical Properties

Cas. No. 524033-40-7

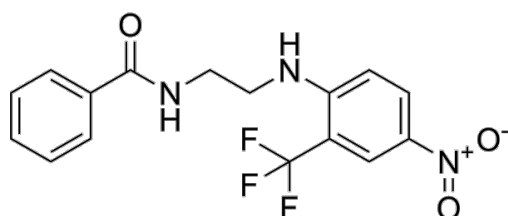
Formula $C_{16}H_{14}F_3N_3O_3$ M.Wt 353.3

Solubility DMSO : 100 mg/mL (283.05 mM); Storage -20°C
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

NPBA, a potassium K2P channel TASK-3 (KCNK9) agonist, is a tandem pore domain weak inward rectifying K⁺ channel (TWIK2) channel blocker. NPBA suppresses NLRP3 inflammasome activation in macrophages.

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

Product Data Sheet

References:

- [1]. Fuyun Tian, et al. A Small-Molecule Compound Selectively Activates K2P Channel TASK-3 by Acting at Two Distant Clusters of Residues. *Mol Pharmacol*. 2019 Jul;96(1):26-35.
- [2]. Yuanxing Zhi, et al. A novel TWIK2 channel inhibitor binds at the bottom of the selectivity filter and protects against LPS-induced experimental endotoxemia in vivo. *Biochem Pharmacol*. 2023 Dec;218:115894.

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