

Product Data Sheet

Product Name: BChE-IN-17

Cat. No.: GC71321

Chemical Properties

Cas. No. 2425632-57-9

Formula $C_{23}H_{23}BrN_2O_4S_2$ M.Wt 535.47

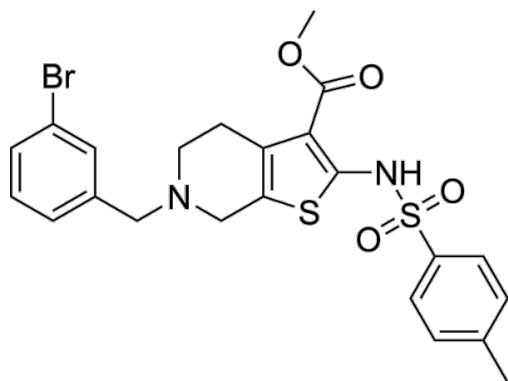
Solubility DMSO : 2 mg/mL (3.74 mM); ultrasonic and warming and heat to 60°C; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

Storage 4°C, protect from light

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

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

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BChE-IN-17 (compound 6n) is a potent and selective BChE inhibitor with IC₅₀s of 10.5 nM and 32.5 nM for eqBChE and hBChE, respectively. BChE-IN-17 shows over 1000-fold selectivity to BChE against AChE. BChE-IN-17 shows low neurotoxicity and moderate neuroprotective effects.

References:

[1]. Tingkai Chen, et al. The structural modification and biological evaluation of tetrahydrothienopyridine derivatives as selective BChE inhibitors. *Bioorg Med Chem Lett*. 2023 Sep 1;93:129436.

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