

Product Data Sheet

Product Name: Yonkenafil

Cat. No.: GC70699

Chemical Properties

Cas. No. 804518-63-6

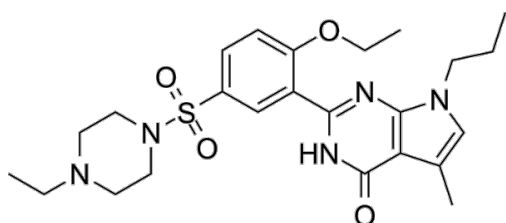
Formula $C_{24}H_{33}N_5O_4S$ M.Wt 487.61

Solubility DMSO : 100 mg/mL (205.08 mM); Storage 4°C, protect from light
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

Yonkenafil (Tunodafil), a novel phosphodiesterase 5 (PDE5) inhibitor, is effective in reducing cerebral infarction, neurological deficits, edema, and neuronal damage in the infarcted area. Yonkenafil may improve cognitive function by modulating neurogenesis and has a potential therapeutic effect on Alzheimer's disease.

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

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Yonkenafil (4-32 mg/kg, i.v. daily for 7 days) improves behavioral outcomes after stroke and reduces cerebral infarct volume, inhibits neuronal apoptosis, and significantly enhances synaptic function in ischemic brain by modulating the expression of BDNF/TrkB and NGF/TrkA^[1].

References:

[1]. Xuemei Chen, et al. Yonkenafil: a novel phosphodiesterase type 5 inhibitor induces neuronal network potentiation by a cGMP-dependent Nogo-R axis in acute experimental stroke. *Exp Neurol.* 2014 Nov;261:267-77.

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