

Product Data Sheet

Product Name: NTP42
Cat. No.: GC38827

Chemical Properties

Cas. No. 2055599-51-2

SMILES O=S(C1=CC(C#N)=CC=C1OC2=CC(C3=CC=C(OC(F)F)C=C3)=CC=C2)(NC(NC(C)(C)C)=O)=O

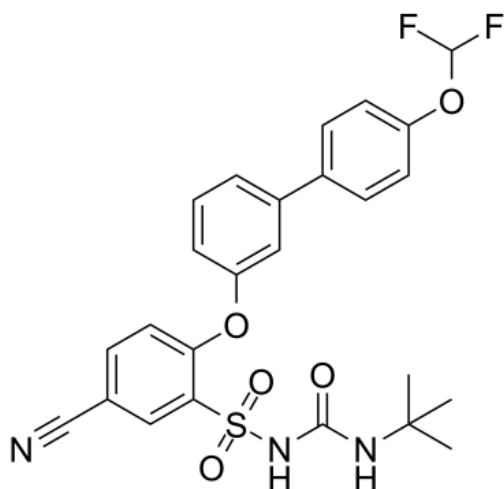
Formula $C_{25}H_{23}F_2N_3O_5S$ M.Wt 515.53

Solubility DMSO: 31.25 mg/mL (60.62 mM) Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

NTP42 is a thromboxane A₂ (TXA₂) receptor antagonist with an IC₅₀ of 3.278 nM for antagonizing T prostanoid receptor (TP)- mediated [Ca²⁺] mobilization following stimulation of cells with the alternative TP agonist U46609[1]. NTP42 can be used for the treatment of pulmonary arterial hypertension (PAH)[2].

NTP42 (0.25 mg/kg BID) is potent in a monocrotaline (MCT)-induced PAH rat model (28-day drug

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

treatment is initiated within 24 h post-MCT) in haemodynamic assessments. NTP42 reduces the MCT-induced PAH, including mean pulmonary arterial pressure (mPAP) and right systolic ventricular pressure (RSVP). Moreover, NTP42 is superior to Sildenafil and Selexipag in significantly reducing pulmonary vascular remodelling, inflammatory mast cell infiltration and fibrosis in MCT-treated animals[2]. Animal Model: Male Wistar-Kyoto rats[2]

[1]. B. Therese KINSELLA, et al. Thromboxane receptor antagonists. WO2016203314A1. [2]. Eamon Mulvaney, et al. NTP42, a novel antagonist of the thromboxane receptor, attenuates experimentally induced pulmonary arterial hypertension.

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