

Product Data Sheet

Product Name: VUF 10460

Cat. No.: GC17585

Chemical Properties

Cas. No. 1028327-66-3

Chemical Name 4-(4-methylpiperazin-1-yl)-6-phenylpyrimidin-2(1H)-imine

SMILES CN1CCN(C(C=C(N2)C3=CC=CC=C3)=NC2=N)CC1

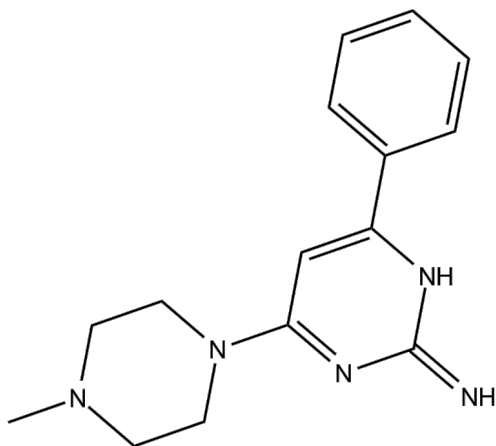
Formula $C_{15}H_{19}N_5$ M.Wt 269.34

Solubility DMSO: 100mg/mL Storage Store at -20°C

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



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

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Protocol

Animal experiment: Rats: VUF10460 is dissolved in 100% DMSO. Gastric lesions are induced in 24 h fasted rats by a single intragastric administration of 0.6 N HCl (5mL/kg volume). Drugs under study are administered subcutaneously 30 min before HCl. Rats are randomly divided to receive single doses (10 and/or 30 mg/kg) of immethridine, methimipip, immepip, VUF8430, VUF10460 or the vehicle, in a 1 mL/kg volume[1].

References:

[1]. Coruzzi G, et al. Selective histamine H3 and H4 receptor agonists exert opposite effects against the gastric lesions induced by HCl in the rat stomach. Eur J Pharmacol. 2011 Nov 1;669(1-3):121-7.

Background

VUF10460 is a non-imidazole histamine H4 receptor agonist; binds to rat H4 receptor with a pKi of 7.46.

UF10460 binds to rat H3 and H4 receptor with pKi values of 5.75, and 7.46, respectively. VUF10460 displays approximately a 50-fold selectivity for the rat H4 receptor over the H3 receptor[1].

HCl-induced rat gastric lesions is significantly enhanced by the H4 receptor agonists VUF10460. This effect is not modified by H4 receptor antagonist JNJ7777120[1].

References:

[1]. Coruzzi G, et al. Selective histamine H3 and H4 receptor agonists exert opposite effects against the gastric lesions induced by HCl in the rat stomach. Eur J Pharmacol. 2011 Nov 1;669(1-3):121-7.

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