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产品名称：VUF10460
产品别名：VUF10460

生物活性：

Description	VUF10460 is a non-imidazole histamine H4 receptor agonist; binds to rat H4 receptor with a pKi of 7.46.
IC_{50} & Target	pKi: 7.46 (H4)[1]
In Vitro	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].
In Vivo	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].

Solvent&Solubility

In Vitro:

DMSO : ≥ 36 mg/mL (133.66 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7128 mL	18.5639 mL	37.1278 mL
	5 mM	0.7426 mL	3.7128 mL	7.4256 mL
	10 mM	0.3713 mL	1.8564 mL	3.7128 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

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.

实验参考：

Animal Administration	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, methimepip, 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.