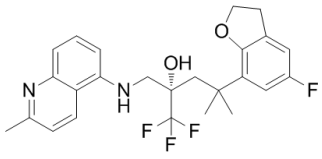
(S)-Mapracorat

Cat. No.:	HY-14864A
CAS No.:	887375-15-7
Molecular Formula:	$C_{25}H_{26}F_4N_2O_2$
Molecular Weight:	462.48
Target:	Glucocorticoid Receptor
Pathway:	GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50.6 mg/mL (109.41 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1623 mL	10.8113 mL	21.6226 mL
5 mM	0.4325 mL	2.1623 mL	4.3245 mL
10 mM	0.2162 mL	1.0811 mL	2.1623 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	(S)-Mapracorat is a selective and less active glucocorticoid receptor agonist.
In Vitro	(S)-Mapracorat concentration dependently inhibited TNFα secretion from activated canine PBMC with IC_{50} value of approximately 0.2 nM.
In Vivo	Intradermal injection of compound 48/80 (50 μg in 50 μL saline) resulted in a clear wheal and flare reaction over the 60 min observation period. Topical pre-treatment with (S)-Mapracorat (0.1%) leads to significant reduction in the wheal and flare responses compared to vehicle (acetone) treated areas.

REFERENCES

[1]. Bäumer W , et al. The selective glucocorticoid receptor agonist mapracorat displays a favourable safety-efficacy ratio for the topical treatment of inflammatory skin diseases in dogs. Vet Dermatol. 2017 Feb; 28(1):46-e11.

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