Antalarmin hydrochloride

Cat. No.: HY-103377 CAS No.: 220953-69-5 Molecular Formula: $C_{24}H_{35}CIN_4$ Molecular Weight: 415.01 CRFR Target:

Pathway: GPCR/G Protein

Storage: -20°C, sealed storage, away from moisture

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro DMF: 20 mg/mL (48.19 mM; Need ultrasonic and warming)

> Ethanol: 14 mg/mL (33.73 mM; Need ultrasonic and warming) DMSO: 12.5 mg/mL (30.12 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.4096 mL	12.0479 mL	24.0958 mL
	5 mM	0.4819 mL	2.4096 mL	4.8192 mL
	10 mM	0.2410 mL	1.2048 mL	2.4096 mL

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

In Vivo

1. Add each solvent one by one: 15% Cremophor EL >> 85% Saline Solubility: 5 mg/mL (12.05 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Antalarmin (hydrochloride) is a non-peptide corticotropin-releasing hormone receptor 1 (CRHR1) antagonist with a K_i of 1 nM. Antalarmin hydrochloride suppresses CRH-induced ACTH secretion and blocks CRH and novelty induced anxiety-like behavior in animal models. Antalarmin hydrochloride produces anti-inflammatory effects in arthritis models, and suppresses stress-induced gastric ulceration related to irritable bowel syndrome^{[1][2][3]}.

CUSTOMER VALIDATION

• Immunity. 2024 Feb 13;57(2):364-378.e9.

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REFERENCES

- [1]. Webster EL, et al. In vivo and in vitro characterization of antalarmin, a nonpeptide corticotropin-releasing hormone (CRH) receptor antagonist: suppression of pituitary ACTH release and peripheral inflammation. Endocrinology. 1996 Dec;137(12):5747-50. doi: 10.1210/endo.137.12.8940412.
- [2]. Zorrilla EP, et al. Effects of antalarmin, a CRF type 1 receptor antagonist, on anxiety-like behavior and motor activation in the rat. Brain Res. 2002 Oct 18;952(2):188-99.
- [3]. Deak T, et al. The impact of the nonpeptide corticotropin-releasing hormone antagonist antalarmin on behavioral and endocrine responses to stress. Endocrinology. 1999 Jan;140(1):79-86.

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

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