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**Product Data Sheet**

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Product Name: Fluzinamide (AHR-8559)

Cat. No.: GC33509

**Chemical Properties**

Cas. No. 76263-13-3

SMILES O=C(N1CC(OC2=CC=CC(C(F)(F)F)=C2)C1)NCFormula  $C_{12}H_{13}F_3N_2O_2$  M.Wt 274.24

Solubility Soluble in DMSO 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 **Background**

Fluzinamide is an effective antiepileptic.

Fluzinamide, an antiepileptic agent effective against partial seizures, is metabolized extensively in mice, rats and dogs[1]. The anticonvulsant properties of Fluzinamide (AHR-8559) are evaluated in the kindled amygdaloid seizure model in rats. Fluzinamide significantly attenuates afterdischarge durations and the severity of the accompanying convulsive responses in previously kindled rats at doses that does not cause sedation or ataxia. After acute intraperitoneal injections, the maximum anticonvulsant effectiveness against suprathreshold (400  $\mu$ A) stimulation is seen at 30 min. Fluzinamide (10-80 mg/kg i.p.) is also evaluated in kindled rats using threshold (20  $\mu$ A increments) seizures. Low doses of Fluzinamide significantly elevate seizure threshold and reduce both elicited after discharge durations and seizure severity. When administered daily during kindling acquisition, Fluzinamide (20 and 40 mg/kg i.p.) significantly increases the number of trials necessary to complete kindling. The duration and the severity of the responses induced by stimulations during the acquisition period are reduced[2].

[1]. Johnson DN, et al. Pharmacodynamics and pharmacokinetics of AHR-11748, a new

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

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antiepileptic agent, in rodents. *Epilepsy Res.* 1990 Apr;5(3):185-91. [2]. Albertson TE, et al. Anticonvulsant action of fluzinamide (AHR-8559) on kindled amygdaloid seizures. *Epilepsia.* 1984 Aug;25(4):511-7.

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