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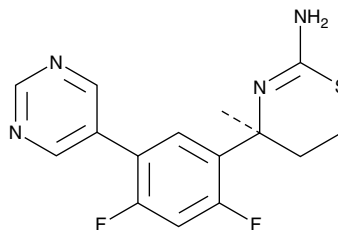
Product Information



LY2811376

Item No. 16712

CAS Registry No.: 1194044-20-6
Formal Name: (4S)-4-[2,4-difluoro-5-(5-pyrimidinyl)phenyl]-5,6-dihydro-4-methyl-4H-1,3-thiazin-2-amine
MF: C₁₅H₁₄F₂N₄S
FW: 320.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that LY2811376 be stored as supplied at -20°C. It should be stable for at least two years.

LY2811376 is supplied as a crystalline solid. A stock solution may be made by dissolving the LY2811376 in the solvent of choice. LY2811376 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of LY2811376 in ethanol is approximately 25 mg/ml and approximately 30 mg/ml in DMSO and DMF.

LY2811376 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, LY2811376 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. LY2811376 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Accumulation of the β -amyloid (A β) peptide in the brain is implicated as the primary cause of neurodegeneration and progression of Alzheimer's disease.¹ A β is derived from sequential proteolytic cleavage of the amyloid precursor protein (APP) by β -secretase (BACE) and γ -secretase.² LY2811376 is a non-peptide inhibitor of BACE1 (IC₅₀ = 239 nM for the synthetic peptide) that demonstrates ~10-fold selectivity over BACE2 and >50-fold selectivity over the aspartyl proteases cathepsin D, pepsin, and renin.³ LY2811376 treatment in APP-overexpressing cells and transgenic animal models yields a dose-dependent decrease in A β .³ Furthermore, LY2811376 has been reported to reduce C99 and sAPP β , the two primary APP cleavage products generated by BACE1.³

References

1. Hong, L., Turner, R.T.I., Koelsch, G., *et al.* Memapsin 2 (β -secretase) as a therapeutic target. *Biochem. Soc. Trans.* **30**(4), 530-534 (2002).
2. Grüniger-Leitch, F., Schlatter, D., Küng, E., *et al.* Substrate and inhibitor profile of BACE (β -secretase) and comparison with other mammalian aspartic proteases. *J. Biol. Chem.* **277**(7), 4687-4693 (2002).
3. May, P.C., Dean, R.A., Lowe, S.L., *et al.* Robust central reduction of amyloid- β in humans with an orally available, non-peptidic β -secretase inhibitor. *J. Neurosci.* **31**(46), 16507-16516 (2011).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16712

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