
Product Data Sheet

Product Name: Etamicastat (BIA 5-453)

Cat. No.: GC32575

Chemical Properties

Cas. No. 760173-05-5

SMILES S=C1NC=C(CCN)N1[C@H]2COC3=C(C=C(F)C=C3F)C2Formula $C_{14}H_{15}F_2N_3OS$ M.Wt 311.35

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

Etamicastat (BIA 5-453) is a potent and reversible peripheral dopamine- β -hydroxylase (D β H) inhibitor[1].

Upon intraperitoneal administration to NMRi mice, Etamicastat (100 mg/ kg) leads to a significant reduction of noradrenaline levels (36% control) in heart with concomitant increasing in dopamine levels (850% of control)[2]. Etamicastat (50 mg/kg) is rapidly absorbed into the systemic circulation reaching a maximum concentration at 4 h post-administration, representing 29% of total Etamicastat and quantified metabolites, using AUC_{0-t} as a measure of systemic exposure[2].

[1]. Vaz-da-Silva M, et al. Effect of food on the pharmacokinetic profile of Etamicastat (BIA 5-453). *Drugs R D*. 2011;11(2):127-36. [2]. Loureiro AI, et al. Etamicastat, a new dopamine- β -hydroxylase inhibitor, pharmacodynamics and metabolism in rat. *Eur J Pharmacol*. 2014 Oct 5;740:285-94.

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

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