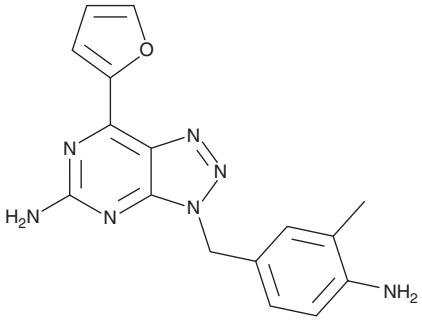
PRODUCT INFORMATION

Vipadenant

Item No. 20239

CAS Registry No.:	442908-10-3
Formal Name:	3-[(4-amino-3-methylphenyl)methyl]-7-(2-furanyl)-3H-1,2,3-triazolo[4,5-d]pyrimidin-5-amine
Synonym:	BIIB-014
MF:	$C_{16}H_{15}N_7O$
FW:	321.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 231, 301, 349 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Vipadenant is supplied as a crystalline solid. A stock solution may be made by dissolving the vipadenant in the solvent of choice, which should be purged with an inert gas. Vipadenant is soluble in the organic solvent DMSO at a concentration of approximately 43 mg/ml.

Description

Vipadenant is a selective adenosine 2A (A_{2A}) receptor antagonist with K_i values of 1.3, 68, 63, and 1,005 nM for A_{2A}, A_1, A_{2B}, and A_3 receptors, respectively, in a radioligand binding assay.[1] It acts as a functional antagonist of human recombinant A_{2A} (K_A = 0.58 nM) in a calcium mobilization-based FLIPR assay. Vipadenant also reverses haloperidol-induced hypolocomotion in mice and rats.

Reference

1. Gillespie, R.J., Bamford, S.J., Botting, R., *et al.* Antagonists of the human A_{2A} adenosine receptor. 4. Design, synthesis, and preclinical evaluation of 7-aryltriazolo[4,5-*d*]pyrimidines. *J. Med. Chem.* **52(1)**, 33-47 (2009).

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