

Product Name : Zaprinast

Synonyms : M&B 22948

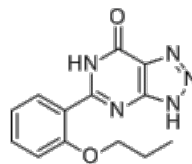
Cat No. : M14302

CAS Number : 37762-06-4

Molecular Formula : C₁₃H₁₃N₅O₂

Formula Weight : 271.30

Chemical Name : 3,6-dihydro-5-(2-propoxyphenyl)-7H-1,2,3-triazolo[4,5-d]pyrimidin-7-one



Description : Zaprinast (M&B 22948) is a potent, cGMP-specific phosphodiesterase inhibitor with IC₅₀ of 0.5-0.76 and 0.15 μM for PDE5 and PDE6 respectively, also is an agonist for GPR35 (EC₅₀=16/840 nM for rat/human GPR35); weakly inhibits PDE9, PDE10, and PDE11 with IC₅₀ of 10-30 μM; enhances the vasodilatory effects of nitric oxide in a range of vascular tissues by prolonging the cGMP-mediated activation of cGMP-dependent protein kinase; also reduces cellular 2HG levels by inhibiting the upstream enzyme glutaminase (GLS), reverses histone hypermethylation and soft-agar growth of IDH1-mutant cells. Asthma Discontinued

Pathway : Angiogenesis

Target : PDE

Receptor : PDE

Solubility : —

SMILES : O=C1C(NN=N2)=C2NC(C3=CC=CC=C3OCC)=N1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Elhammali A, et al. Cancer Discov. 2014 Jul;4(7):828-39. | 2. Taniguchi Y, et al. FEBS Lett. 2006 Sep 18;580(21):5003-8. | 3. Frossard N, et al. Br J Pharmacol. 1981 Aug;73(4):933-8. | 4. Griffith TM, et al. Eur J Pharmacol. 1985 Jun 7;112(2):195-202.