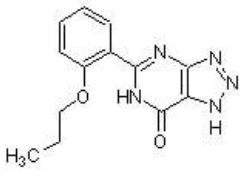
abcam

Product datasheet

Zaprinast, cGMP phosphodiesterase inhibitor ab120940

2 Images

Overview

Product name	Zaprinast, cGMP phosphodiesterase inhibitor
Description	Specific cGMP phosphodiesterase inhibitor
Purity	> 98%
CAS Number	37762-06-4
Chemical structure	

Properties

Chemical name	3,6-Dihydro-5-(2-propoxyphenyl)-7*H*-1,2,3-triazolo[4,5-*d*]pyrimidin-7-one
Molecular weight	271.28
Molecular formula	$C_{13}H_{13}N_5O_2$
Storage instructions	Store at Room Temperature. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 25 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	CCCOc1ccccc1c1[nH]c(=O)c2nn[nH]c2n1
Source	Synthetic

Applications

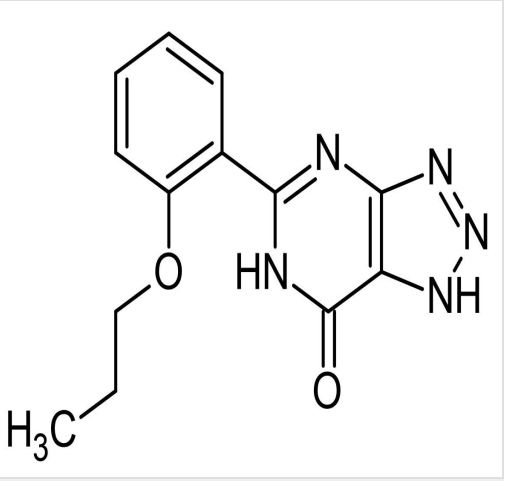
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120940 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

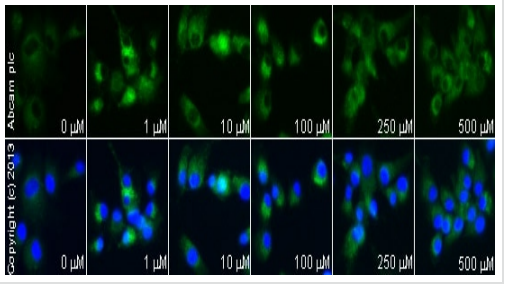
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Zaprinast, cGMP phosphodiesterase inhibitor (ab120940)

2D chemical structure image of ab120940, Zaprinast, cGMP phosphodiesterase inhibitor



Functional Studies - Zaprinast, cGMP phosphodiesterase inhibitor (ab120940)

ab76165 staining ERK1 + ERK2 (phospho T202 + Y204) in U87MG cells treated with zaprinast (ab120940), by ICC/IF. Increase of ERK1 + ERK2 (phospho T202 + Y204) expression correlates with increased concentration of zaprinast, as described in literature. The cells were incubated at 37°C for 24 hours in media containing different concentrations of ab120940 (zaprinast) in DMSO, fixed with 100% methanol for 5 minutes at -20°C and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab76165** (5 µg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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