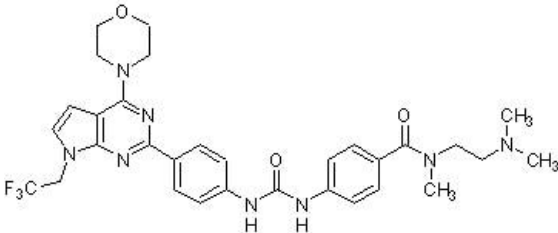


CAY10626, PI3K α /mTOR inhibitor ab120903

2 Images

Overview

Product name	CAY10626, PI3K α /mTOR inhibitor
Description	Potent PI3K α /mTOR inhibitor
Biological description	Potent, dual PI3K α /mTOR inhibitor (IC ₅₀ values are 0.9 and 0.6 nM at PI3K α and mTOR, respectively). Inhibits tumor cell growth, suppresses phosphorylation of downstream targets of PI3K α and mTOR <i>in vitro</i> and promotes tumor regression <i>in vivo</i> .
Purity	> 98%
CAS Number	1202884-94-3
Chemical structure	

Properties

Chemical name	<i>N</i> -[2-(Dimethylamino)ethyl]- <i>N</i> -methyl-4-[[[4-[4-(4-morpholinyl)-7-(2,2,2-trifluoroethyl)-7 <i>H</i> -pyrrolo[2,3- <i>d</i>]pyrimidin-2-yl]phenyl]amino]carbonyl]amino]benzamide
Molecular weight	624.66
Molecular formula	C ₃₁ H ₃₅ F ₃ N ₈ O ₃
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 10 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. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES

O=C(NC1=CC=C(C(N(C)CCN(C)C)=O)C=C1)NC2=CC=C(C3=NC(N4CCOCC4)=C(C=CN5C
C(F)(F)F)C5=N3)C=C2

Source

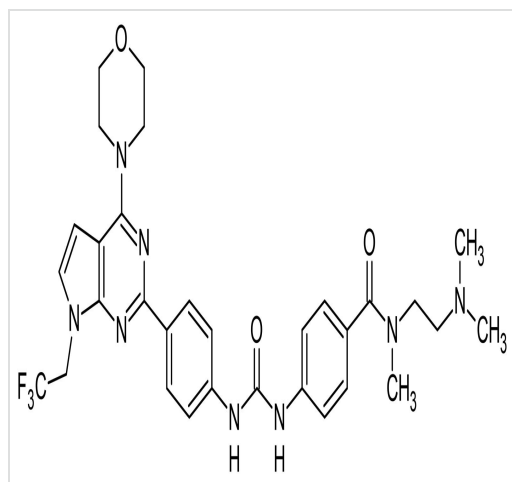
Synthetic

Applications**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab120903 in the following tested applications.

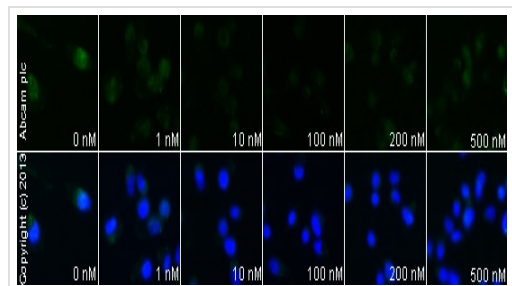
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Images

2D chemical structure image of ab120903, CAY10626, PI3Kalpha/mTOR inhibitor

Chemical Structure - CAY10626, PI3Kalpha/mTOR inhibitor (ab120903)



Functional Studies - CAY10626, PI3Kalpha/mTOR inhibitor (ab120903)

ab81283 staining AKT1 (phospho S473) in PC3 cells treated with CAY10626 (ab120903), by ICC/IF. Decrease of AKT1 (phospho S473) expression correlates with increased concentration of CAY10626, as described in literature.

The cells were incubated at 37°C for 24h in media containing different concentrations of ab120903 (CAY10626) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature 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 **ab81283** (1/100) dilution 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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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