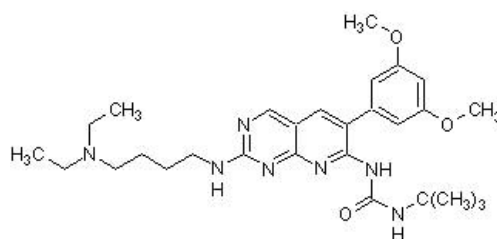


# PD 173074, FGFR1 and FGFR3 inhibitor ab141117

[2 References](#) [2 Images](#)

## Overview

Product name	PD 173074, FGFR1 and FGFR3 inhibitor
Description	Potent FGFR1 and FGFR3 inhibitor
Purity	> 99%
CAS Number	219580-11-7
Chemical structure	



## Properties

Chemical name	<i>N</i> -[2-[[4-(Diethylamino)butyl]amino]-6-(3,5-dimethoxyphenyl)pyrido[2,3- <i>d</i> ]pyrimidin-7-yl]- <i>N'</i> -(1,1-dimethylethyl)urea
Molecular weight	523.68
Molecular formula	C <sub>28</sub> H <sub>41</sub> N <sub>7</sub> O <sub>3</sub>
PubChem identifier	1401
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM and in ethanol to 100 mM
Handling	<p>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.</p> <p>Refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
SMILES	<chem>CC(C)(C)NC(=O)Nc1nc3nc(NCCCCN(CC)CC)ncc3cc1c2cc(OC)cc(OC)c2</chem>
Source	Synthetic

## Applications

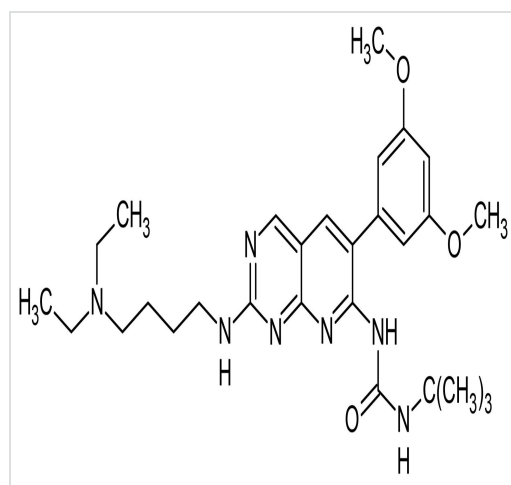
### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab141117 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 - PD 173074, FGFR1 and FGFR3 inhibitor (ab141117)

2D chemical structure image of ab141117, PD 173074, FGFR1 and FGFR3 inhibitor



Functional Studies - PD 173074, FGFR1 and FGFR3 inhibitor (ab141117)

BT549 cells were incubated at 37°C for 1 hour with vehicle control (0 μM) and different concentrations of PD 173074 (ab141117) in DMSO. Decreased expression of RSK1 p90 (phospho T359 + S363) **ab32413** correlates with an increase in PD 173074 concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with **ab32413** at 1/5000 dilution and **ab8227** at 1 μg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP **ab97051** at 1/10000 dilution and visualised using ECL development solution.

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

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