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## DATASHEET

PD 173074

### Product overview

|                          |  |
|--------------------------|--|
| <b>Name</b>              | PD 173074  |
| <b>Cat No</b>            | HB3584   |
| <b>Biological action</b> | Inhibitor  |
| <b>Purity</b>            | >98%   |
| <b>Description</b>       | FGFR1/ FGFR3 inhibitor. Inhibits oligodendrocyte progenitor proliferation and differentiation. |

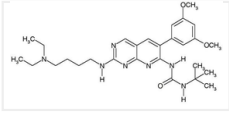
### Biological Data

|                               |   |
|-------------------------------|---|
| <b>Biological description</b> | FGFR1/ FGFR3 inhibitor (IC <sub>50</sub> values are 22 and 5 nM respectively). Inhibits angiogenesis. Also inhibits oligodendrocyte progenitor proliferation and differentiation. |
|-------------------------------|---|

### Solubility & Handling

|                             |   |
|-----------------------------|---|
| <b>Storage instructions</b> | +4 °C   |
| <b>Solubility overview</b>  | Soluble in DMSO (100mM) or ethanol (100mM)  |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

### Chemical Data

|                           |  |
|---------------------------|--|
| <b>Chemical name</b>      | <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 |
| <b>Molecular Weight</b>   | 523.67   |
| <b>Chemical structure</b> |   |
| <b>Molecular Formula</b>  | C <sub>28</sub> H <sub>41</sub> N <sub>7</sub> O <sub>3</sub>  |
| <b>CAS Number</b>         | 219580-11-7  |
| <b>PubChem identifier</b> | 1401   |
| <b>SMILES</b>             | <chem>O=C(NC(C)(C)C)NC2=NC1=NC(NCCCCN(CC)CC)=NC=C1C=C2C3=CC(OC)=CC(OC)=C3</chem>   |
| <b>InChiKey</b>           | DXCUKNQANPLTEJ-UHFFFAOYSA-N  |

### References

**1-tert-butyl-3-[6-(3,5-dimethoxy-phenyl)-2-(4-diethylamino-butylamino)-pyrido[2,3-d]pyrimidin-7-yl]-urea (PD173074), a selective tyrosine kinase inhibitor of fibroblast growth factor receptor-3 (FGFR3), inhibits cell proliferation of bladder cancer carryi**

Miyake et al (2010) J Pharmacol Exp Ther 332(3)

**PubMedID** [19955487](#)

**The FGFR1 inhibitor PD 173074 selectively and potently antagonizes FGF-2 neurotrophic and neurotropic effects.**

Skaper et al (2000) J Neurochem 75(4)

PubMedID

10987832

**The FGFR1 inhibitor PD173074 induces mesenchymal-epithelial transition through the transcription factor AP-1.**

Nguyen et al (2013) Br J Cancer 109(8)

PubMedID

24045665

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