

# RTK (Receptor Tyrosine Kinase) Inhibitors

RTKs (Receptor tyrosine kinases) are transmembrane glycoproteins present on cell surface that activate various kinds of main cell signaling pathways like MAPK pathway and PI3K pathway. They're important molecules in biological phenomenon to control basic cell activities such as proliferation, differentiation, survival and death. Their excess expression and active mutation have been reported in cancer cells. Numerous specific low molecular-weight drugs and antibodies designed to inhibit their activities have been developed.

## EGFR (ErbB) Family Inhibitors

EGFR is a transmembrane protein receptor for members of EGF family (Epidermal Growth Factor family) of extracellular protein ligands; EGFR is a member of ErbB family of receptors which includes EGFR (ErbB1), HER2 (ErbB2), HER3, HER4. Anti-tumor agents, including Dacomitinib (Product code : **D5450**), have been developed as a result of extensive studies of ligand binding to various ErbB receptors.

<b>Tyrphostin AG 494</b>	20mg / 100mg [A2704]
<b>Butein</b>	100mg / 1g [B3803]
<b>PD 153035 Hydrochloride</b>	25mg / 100mg [B4945]
<b>BMS-599626</b>	10mg / 50mg [B5520]
<b>Curcumin (Natural)</b>	1g / 25g [C0434]
<b>Curcumin (Synthetic)</b>	5g / 25g [C2302]
<b>Daphnetin</b>	1g / 5g [D4001]
<b>Dacomitinib</b>	50mg / 250mg [D5450]
<b>Genistein</b>	100mg / 1g [G0272]
<b>Methyl 2,5-Dihydroxycinnamate (= Erbstatin Analog)</b>	10mg / 100mg [M2520]
<b>Mubritinib</b>	25mg / 100mg [M3058]
<b>Pelitinib</b>	25mg / 100mg [P2529]
<b>PD 158780</b>	10mg / 50mg [P2567]
<b>Tyrphostin AG 1478</b>	25mg [T2944]
<b>Tyrphostin AG 490</b>	20mg / 100mg / 1g [T2962]
<b>Tyrphostin A23</b>	25mg / 100mg [T3503]
<b>Tyrphostin AG 835</b>	25mg / 100mg [T3540]
<b>Tyrphostin RG 13022</b>	25mg / 100mg [T3575]
<b>Tyrphostin RG 14620</b>	25mg / 100mg [T3576]

## FGFR Family Inhibitors

FGF (Fibroblast Growth Factor) is a protein that is involved in wide variety of processes related to normal development of various cells including fibroblasts, as well as angiogenesis, wound healing and so on. The mammalian FGFR (FGF receptor) family has four members : FGFR1, FGFR2, FGFR3 and FGFR4.

<b>PD 173074</b>	10mg / 50mg [P2474]
<b>Regorafenib</b>	25mg / 100mg [R0142]

\*Regorafenib is a potent multikinase inhibitor, and it also inhibit other RTKs such as VEGFR, TIE2, KIT, RET and so on.

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## PDGFR Family Inhibitors

PDGF (Platelet-Derived Growth Factor) is mainly involved in the regulation of migration and proliferation of mesenchymal cells. PDGFR (PDGF Receptor) family belongs to type III class of RTK receptors, and includes PDGFR, CSF-1R, KIT, FLT3 among others. The over-expression of PDGF and PDGFR is believed to correlate with development of arteriosclerosis and fibrous growth disease.

<b>TCS 359</b>	25mg / 100mg [D5275]
<b>GW 2580</b>	50mg / 250mg [G0504]
<b>Imatinib</b>	100mg / 1g [I0906]
<b>Imatinib Mesylate</b>	100mg / 1g [I0936]
<b>Regorafenib</b>	25mg / 100mg [R0142]
<b>Tyrphostin A9</b>	25mg / 100mg [T3667]
<b>Tyrphostin RG 13022</b>	25mg / 100mg [T3575]

## VEGFR Family Inhibitors

VEGF (Vascular Endothelial Growth Factor) is signaling protein which plays an essential role in angiogenesis, enhancement of proliferation of endothelial cell and vasculogenesis. It deeply associated with cancer metastasis and inflammatory disease, therefore, VEGF and VEGFR (VEGF Receptor) are very important target molecules for Pharmaceutical R&D.

<b>SKLB1002</b>	25mg / 100mg [K0060]
<b>NVP-BHG 712</b>	10mg / 50mg [N1099]
*Inhibition against EphB4 is also reported.	
<b>PD 173074</b>	10mg / 50mg [P2474]
<b>Regorafenib</b>	25mg / 100mg [R0142]

## RET Inhibitors

RET (Rearranged During Transfection) protein is activated as a receptor tyrosine kinase by interacting with GDNF (Glial Cell Line Derived Neurotrophic Factor), such interaction activates signaling pathways including PI3K-Akt signaling pathway and MAPK signaling pathway. It has been reported that a certain type of mutation in *RET*, known as 'rearrangement', fuse the *RET* gene with other nearby genes, resulting in a RET protein that contains parts of other proteins which makes it hyperactive oncogene and correlates with development of thyroid gland cancer and lung cancer.

<b>RPI 1</b>	10mg / 50mg [R0202]
<b>Regorafenib</b>	25mg / 100mg [R0142]

## Other RTKs Inhibitor

<b>SB 431542 Hydrate</b>	25mg / 100mg [B4003]
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\*A selective inhibitor of ALK (Activin Receptor-Like Kinase) 5, a type1 receptor of TGFβ

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).

tyrosine kinase



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Tel : 800-988-0390 / 021-67121386  
Fax : 021-6712-1385  
E-mail : Sales-CN@TCIchemicals.com

#### TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81 (0)3-5640-8878  
Fax : +81 (0)3-5640-8902  
E-mail : globalbusiness@TCIchemicals.com

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