LIFE SCIENCE

TCI

Receptor Tyrosine Kinase (RTK) 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 No. **D5450**), have been developed as a result of extensive studies of ligand binding to various ErbB receptors.

AEE 788	5mg / 25mg [A3271]
Butein	100mg / 1g [B3803]
PD 153035 Hydrochloride	25mg / 100mg [B4945]
BMS-599626	10mg / 50mg [B5520]
Curcumin (Natural)	1g / 25g [C0434]
Curcumin (Synthetic)	5g / 25g [C2302]
Daphnetin	1g / 5g [D4001]
Dacomitinib	50mg / 250mg [D5450]
Genistein	100mg / 1g [G0272]
Gefitinib	1g / 5g [G0546]
Methyl 2,5-Dihydroxycinnamate (= Erbstatin Analog)	10mg / 100mg [M2520]
Mubritinib	25mg / 100mg [M3058]
Pelitinib	25mg / 100mg [P2529]
PD 158780	10mg / 50mg [P2567]
Tyrphostin AG 1478	25mg [T2944]
Tyrphostin AG 490	20mg / 100mg / 1g [T2962]
Tyrphostin AG 494	20mg / 100mg [A2704]
Tyrphostin A23	25mg / 100mg [T3503]
Tyrphostin AG528	25mg / 100mg [T3504]
Tyrphostin AG 835	25mg / 100mg [T3540]
Tyrphostin RG 13022	25mg / 100mg [T3575]
Tyrphostin RG 14620	25mg / 100mg [T3576]
WHI-P154	10mg / 50mg [W0013]

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.

PD-161570	5mg / 25mg [P2531]
PD 173074	10mg / 50mg [P2474]
Regorafenib	25mg / 100mg [R0142]

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

Receptor Tyrosine Kinase (RTK) Inhibitors

PDGFR Family Inhibitors

PDGF (Platelet-Derived Growth Factor) is mainly involved in the regulation of migration and proliferation of mesenchymal cells. PDGRF (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.

AG-1296	5mg / 25mg [D4601]
TCS 359	25mg / 100mg [D5275]
GW 2580	50mg / 250mg [G0504]
Imatinib	100mg / 1g [I0906]
Imatinib Mesylate	100mg / 1g [I0936]
Regorafenib	25mg / 100mg [R0142]
Tyrphostin A9	25mg / 100mg [T3667]
Tyrphostin RG 13022	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.

AEE 788	5mg / 25mg [A3271]
SKLB1002	25mg / 100mg [K0060]
NVP-BHG 712	10mg / 50mg [N1099]
*The inhibitory ability of NVP-BHG 712 against EphB4 is also reported.	
PD 173074	10mg / 50mg [P2474]
Regorafenib	25mg / 100mg [R0142]
SU 1498	5mg / 25mg [U0103]
WHI-P154	10mg / 50mg [W0013]

RET Inhibitors

RET (Rearranged During Transfection) protein is activated as a receptor tyrosine kinase by interacting with GDNF (Glial Cell Line Derived Neuotrophic 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.

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

Other RTKs Inhibitors

NVP-BHG 712	10mg / 50mg [N1099]
PQ401	10mg / 50mg [P2479]
SB 431542	25mg / 100mg [B4003]
*SB 431542 selectively inhibits ALK (Activin Reveptor-Like Kinase) 5, a type1 receptor of TGFβ.	
SB-505124	5mg / 25mg [B6056]

For further information please refer to our website at www.TCIchemicals.com. ▶▶▶ tyrosine kinase

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