

Small Molecule Angiogenesis Inhibitors

In the fight against cancer, innovation is key. At the forefront of this battle is the cutting-edge science of angiogenesis and the development of small molecule angiogenesis inhibitors. Angiogenesis, the process of forming new blood vessels from pre-existing ones, is crucial in both normal physiological processes like wound healing and in pathological conditions such as cancer. By targeting this process, it is possible to cut off the blood supply that tumors need to grow, offering a powerful strategy to combat cancer. The main pathways and targets involved in angiogenesis are complex and involve a range of signaling molecules, receptors, and transcription factors. Small molecule angiogenesis inhibitors interfere with the signaling pathways that promote blood vessel formation within tumors. The most important pathways targeted by our small molecule inhibitors include, vascular endothelial growth factor (VEGF), fibroblast growth factor (FGF), platelet-derived growth factor (PDGF), angiopoietin/Tie, hypoxia-inducible factor (HIF) and matrix metalloproteinases (MMPs).

Selected Angiogenesis Inhibitors

PRODUCT NAME	PID	CAS	Inhibition
Ageladine A .TFA	AG-CMA-1001	950766-21-9	MMPs
Arctigenin	AG-CN2-0530	7770-78-7	MMP-2, MMP-9
Asiatic acid	AG-CN2-0400	464-92-6	VEGFR2
BAY 43-9006	AG-CR1-0025	284461-73-0	VEGFR2/3, PDGFR- β , Flt-3, c-Kit, Raf-1
Borrelidin	BVT-0098	7184-60-3	threonyl-tRNA synthetase (ThrRS)
Cabozantinib	CDX-C0755	849217-68-1	VEGFR2, c-Met, AXL, FLT3, c-Kit, RET, Tie-2
Cabozantinib S-malate	CDX-C0698	1140909-48-3	VEGFR2, c-Met, AXL, FLT3, c-Kit, RET, Tie-2
Celastrol	AG-CN2-0460	34157-83-0	HIF-1 α , VEGFR1/2
Chetomin	BVT-0161	1403-36-7	HIF-1 α /p300 complex
CRT0066101 . HCl	AG-CR1-3550	1781742-22-0	PKD1, PKD2, PKD3
Elaiophylin	BVT-0185	37318-06-2	HIF-1 α , VEGFR2
Emodin	AG-CN2-0457	518-82-1	VEGFR2, FGFR-1, EGFR, PDGFR- β , Kit, MMP-2, MMP-9
Epigallocatechin gallate	AG-CN2-0063	989-51-5	HIF-1 α , VEGFR2, MMP-2, MMP-9
Formononetin	CDX-F0339	485-72-3	FGFR2
Fumagillin	AG-CN2-0529	23110-15-8	MetAP2

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Ginkgolide B	CDX-G0218	15291-77-7	PAFR
Hesperidin	CDX-H0245	520-26-3	COX-2, MMP-2, MMP-9
Imatinib . Mesylate	AG-CR1-3725	220127-57-1	Bcr-Abl, PDGFR, c-Kit
Magnolol	CDX-M0170	528-43-8	HIF-1 α , MMP2, MMP9
Nintedanib (free base)	CDX-N0321	656247-17-5	VEGFR1/2/3, FGFR1/2/3, PDGFR α/β , Flt-3, RET
NVP-BE235 (Dactolisib)	AG-CR1-3633	915019-65-7	PI3K, mTOR
Oleuropein	AG-CN2-0538	32619-42-4	COX-2, MMP-2, MMP-9
Orantinib	CDX-O0202	252916-29-3	VEGFR2, PDGFR β , FGFR1
Parthenolide	AG-CN2-0455	20554-84-1	VEGFR1/2, COX-2
Pazopanib (free base)	AG-CR1-3746	444731-52-6	VEGFR1/2/3, PDGFR, c-Kit, FGFR, c-FMS
Pazopanib . HCl	AG-CR1-3748	635702-64-6	VEGFR1/2/3, PDGFR, c-Kit, FGFR, c-FMS
PD 0325901	AG-CR1-3711	391210-10-9	MEK1, MEK2
Ponatinib	AG-CR1-3538	943319-70-8	PDGFR α , VEGFR2, FGFR1, c-Kit, RET, Tie-2, Flt-3
Psammaplin A	AG-CN2-0088	110659-91-1	APN
Pseudolaric acid B	AG-CN2-0083	82508-31-4	MMP9, HIF-1 α , VEGFR2
Regorafenib	AG-CR1-3623	755037-03-7	VEGFR1/2/3, PDGFR β , Kit, RET and Raf-1
Salicin	CDX-S0001	138-52-3	COS-1, COX-2
Sunitinib . Malate	AG-CR1-3707	341031-54-7	VEGFR1/2/3, PDGFR- β , FLK1, FLT3
Taspine	AG-CN2-0544	602-07-3	VEGFR2
Terrein	BVT-0193	582-46-7	VEGFR2
UBS109	AG-CR1-3704	1258513-40-4	HIF-1 α , HSP90, COX-2 and VEGF
Vandetanib	CDX-V0043	443913-73-3	RET, VEGFR1/2/3, PDGFR β , Tie-2, FGFR1
Withaferin A	AG-CN2-0490	5119-48-2	Vimentin
Wogonin	AG-CN2-0064	632-85-9	VEGFR2, HIF-1 α , MMP-2, MMP-9
YC-1	AG-CR1-0120	170632-47-0	HIF-1 α

Please see our website www.adipogen.com for additional Angiogenesis Modulators like AG13958, AMG-Tie2-1, BMS-2, BMS-540215, Brivanib alaninate, CYC116, E7080, Foretinib, JNJ-38158471, Ki20227, Motesanib, SAR-131675, Takeda-6d, or Tivozanib.