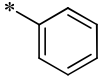
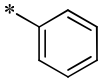
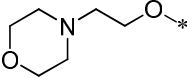
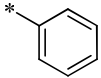
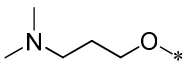
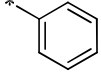
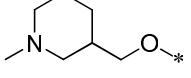
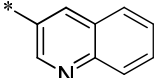
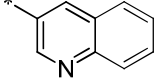
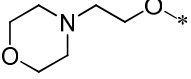
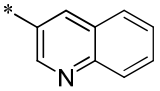
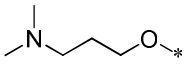
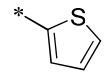

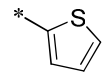
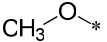
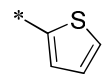
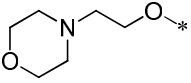
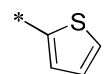
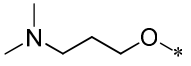
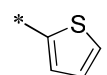
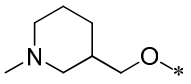
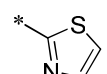


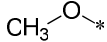

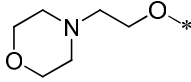

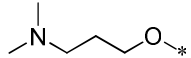

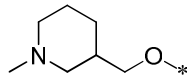



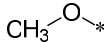

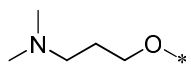

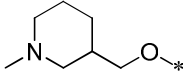



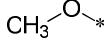

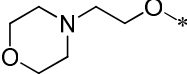

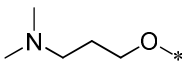

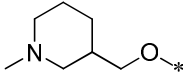




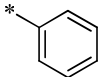
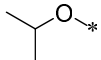
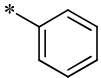
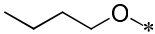
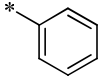
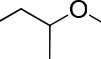
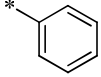
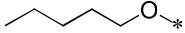
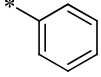
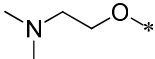
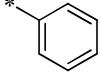
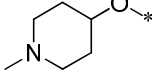
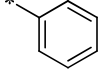
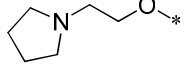
Supplementary Table 2: Second-generation dorsomorphin analogs

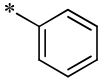
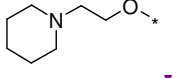
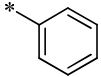
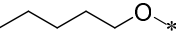
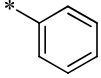
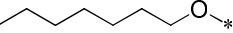
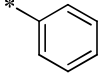
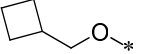
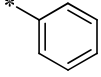
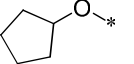
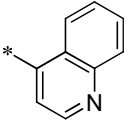
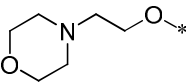
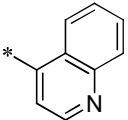
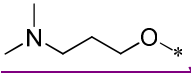
Compound	R1	R2	Dorsalization	ISV disruption	toxicity/ additional defects	Remark
BAC		<chem>CH3O*</chem>	No (>50μM)	No (>50μM)	No	Not bioactive
DMH4			No (>50μM)	Yes (1μM)	No	Potent and selective VEGF signaling inhibitor
BY1			Yes (25μM)	Yes (10μM)	Yes (50μM)	toxic/not selective
BX4			No (>50μM)	Yes (10μM)	No	Not very potent for VEGF
BAE		<chem>H-O*</chem>	No (>50μM)	No (>50μM)	No	Not bioactive
BAJ			No (>50μM)	No (>50μM)	No	Not bioactive

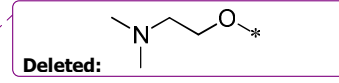
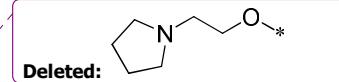
BA1			Yes (25μM)	No (>50μM)	Yes (50μM)	Toxic/ not potent
BB2			No (>50μM)	No (>50μM)	No	Not bioactive
BAQ			dead at 5μM	Yes (10μM)	Yes (10μM)	Toxic/not selective
C02			No (>50μM)	Yes (10μM)	No	Not very potent VEGF inhibitor
C00			No (>50μM)	No (>50μM)	No	Not bioactive
BXD			No (>50μM)	No (>50μM)	Sick at 50μM	Not bioactive
AJC			No (>50μM)	No (>50μM)	No	Not bioactive

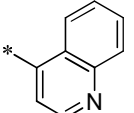
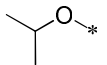
AKU			Yes (25μM)	No	Yes (25μM)	Toxic/not potent
ABY			No (>50μM)	No (>50μM)	No	Not bioactive
AEY			Yes (25μM)	No	Yes (25μM)	Toxic/not potent
AE4			No (>50μM)	No (>50μM)	No	Not bioactive
AJ5			No (>50μM)	No (>50μM)	No	Not bioactive
AJD			No (>50μM)	No (>50μM)	No	Not bioactive
A3N			No (>50μM)	No (>50μM)	No	Not bioactive

A4B			No (>50μM)	No (>50μM)	Yes (25μM)	Toxic/Not bioactive
AJH			Yes (25μM)	Yes (1μM)	No	not selective
AJ7			Yes (10μM)	Yes (2.5μM)	Yes (5μM)	Toxic/not selective
A53			Yes (12.5μM)	Yes (12.5μM)	Yes (25μM)	Toxic/not selective
A4F			No (>50μM)	No (>50μM)	No	Not bioactive
A45			No (>50μM)	No (>50μM)	No	Not bioactive
AJN			Yes (2.5μM)	Yes (2.5μM)	Yes (5μM)	Toxic/not selective

F93			No (>50μM)	No (>50μM)	No	Not bioactive
F9T			No (>50μM)	No (>50μM)	No	Not bioactive
FAD			No (>50μM)	No (>50μM)	No	Not bioactive
F9R			No (>50μM)	No (>50μM)	No	Not bioactive
FAF			Yes (25μM)	No (>50μM)	Yes (50μM)	Toxic/Not potent
F9G			Yes (25μM)	No (>50μM)	Yes (50μM)	Toxic/Not potent
FAT			Yes (25μM)	Yes (5μM)	Yes (50μM)	Toxic and nonselective

FA6			Yes (25μM)	Yes (5μM)	Yes (50μM)	Toxic and nonselective
F9F			No (>50μM)	No (>50μM)	No	Not bioactive
FA4			No (>50μM)	No (>50μM)	No	Not bioactive
FB1			No (>50μM)	No (>50μM)	No	Not bioactive
FB0			No (>50μM)	No (>50μM)	No	Not bioactive
DMH2			Yes (0.1μM)	No (>50μM)	Yes (25μM)	Very potent BMP inhibitor
DMH3			Yes (1μM)	No (>50μM)	No (>50 μM)	Very selective BMP inhibitor



DMH1	 <chem>*c1ccc2ncncc12</chem>	 <chem>CC(C)COC*</chem>	Yes (0.2μM)	No (>50μM)	No (>50μM)	Very potent and selective BMP inhibitor
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