

Figure S1. Effects of TCDD, OME, and ESO on induction of Ah-responsive genes. Effects of DMSO (set at 1.0), 10 nM TCDD, 50 μ M OME, and 100 μ M ESO on gene expression in U87-MG (A), 14-014s (B), and 15-037 (C) GBM cell lines were determined by real time PCR as outlined in the Methods. Effects of TCDD on 15-037 cells (D, left) and effects of OME and ESO on T98G cells (D, right) was determined in a Boyden chamber assay and results were quantitated as outlined in the Methods. Results are expressed as means \pm SD for at least 3 separate determinations per treatment group and significant (p < 0.05) inhibition by ESO and OME (*) and reversal of these effects after AhR knockdown (**) are indicated.

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Table S1. Antibody and Reagents.

Type	Name	Company	Cat #		
Antibody	AhR	Enzo Life Sciences	BML-SA210		
	GAPDH	Cell Signaling	5174		
siRNA	Negative control	Qiagen	1027281		
	siAhR	Sigma	SASI_Hs02_00332181		
Chemical	4-hydroxytamoxifen	Sigma	H7904		
	Flutamide	Sigma	F9397		
	Leflunomide	Sigma	L5025		
	Mexiletine-HCl	Sigma	M2727		
	Nimodipine	Sigma	N149		
	Omeprazole	Sigma	O104		
	Sulindac	Sigma	S8139		
	1,4-Dihydroxy-2-naphthoic acid	Sigma	281255		
	Tryptamine	Sigma	193747		
	Quercetin	Sigma	Q4951		
	β-naphthoflavone	Sigma	N3633		
	Tranilast	LKT Laboratories	T6902		
	Esomeprazole potassium	LKT Laboratories	E7357		

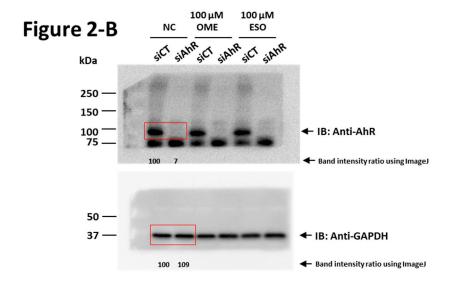
Table S2. RT-PCR Primers.

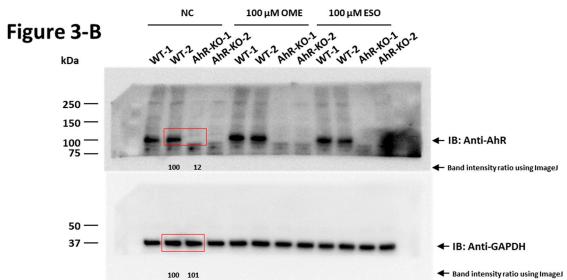
Species	Name	Forward (5'–3')	Reverse (5′–3′)		
Human	CYP1A1	GACCACAACCACCAAGAAC	AGCGAAGAATAGGGATGAAG		
	CYP1B1	TATCACTGACATCTTCGGCG	ACCTGATCCAATTCTGCCTG		
	CXCL12	TGGGCTCCTACTGTAAGGGTT	TTGACCCGAAGCTAAAGTGG		
	CXCR4	TTTTCTTCACGGAAACAGGG	GTTACCATGGAGGGGATCAG		
	MMP9	TTGGTCCACCTGGTTCAACT	ACGACGTCTTCCAGTACCGA		
	TIPARP	ACACGTTCATGGCATTCAAA	TCTCAGGAGCACTTGGAAAGA		
	TBP	GATCAGAACAACAGCCTGCC	TTCTGAATAGGCTGTGGGGT		

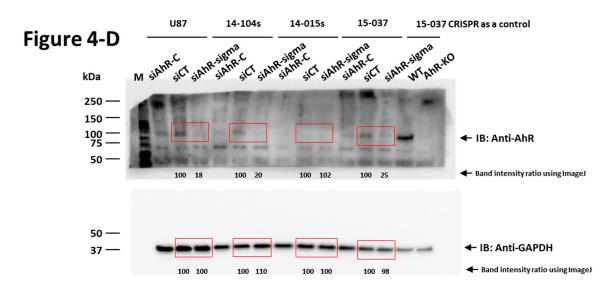
Table S3. Treatment of Early Stage GBM PDX 15-037 with Omeprazole.

Treatment	Drug Route	Dose Schedule	Total Dose mg/kg	% Body Wt. Loss at Nadir	% T/C	Log Cell Kill	Tumor Free on day 35	Activity Rating
No treatment	_	_	_	0	_	_	0/5	_
Omeprazole	РО	QD3-20, 27; B.I.D: 21–26	3100	-1	41.9	0.7	0/6	Active (+)

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Supplemental Materials: the uncropped Western blot