Supplementary online material

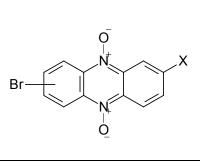
Novel phenazine 5,10-dioxides release [•]OH in simulated hypoxia and induce reduction of tumour volume in vivo

María L. Lavaggi, Mauricio Cabrera, Cristina Pintos, Carolina Arredondo, Gisela Pachón, Jorge Rodríguez, Stella Raymondo, José Pedro Pacheco, Marta Cascante, Claudio Olea-Azar, Adela López de Ceráin, Antonio Monge, Hugo Cerecetto, Mercedes González

DAY									
1	2-4	5-7	8-11	12-14	15-18	19-21	22-25	26-28	29
•	•	\Diamond	•	♦	•	\diamond	•	\diamond	sacrifice
Begin of the treatment									experimental end point

Figure 1S. Schedules of the treatment of healthy and unhealthy rats. **♦**: The animals received intraperitoneally one daily dose of vehicle solution, **PDO1** (50 mg/kg b.w.) or **PDO2** (50 mg/kg b.w.); **◊**: The animals rested, they did not receive any injection. All the treatments began when the tumours reached approximately 4 mm in diameter.

Table 1S. Determination of maximum tolerated dose (MTD) for drugs PDO1,and PDO2.



-X	Dose (mg/kg)	Weight reduction(%) ^a
	60	3.4
-NH ₂	120	3.4
	300 ^b	4.5
	60	0
-OH	120	5.7
	300 ^b	11.7
	-NH ₂	-NH ₂ 120 300 ^b -OH 120

^a Weight reduction is expressed as the percentage of weight reduction of treated animals respect to control animals (untreated ones) on day 3. ^b Solubility problems did not allow to study higher doses.

Table 2S. Mean values of the biochemical and the haematological findings in healthy-animals treated with **PDO1**, **PDO2**, and vehicle solution according to schedule shown in Figure 1S.

Comp.	Dose (mg/kg b.w./day)	WBC (10 ⁹ /L) ^a	HGB (g/L) ^b	НСТ (%) [°]	GOT/AST (U/L) ^d	GPT/ALT (U/L) ^e	UREA (mg/dL)	CRE (mg/dL) ^f	GLU (g/L) ^g
PDO2	50	2.9	111	36.9	196	38	43	0.42	157
PDO1	50	3.9	129	41.0	158	48	40	0.44	118
Control	vehicle solution	1.6	99.7	30.8	319	51	42	0.46	130
Reference values ^h	-	6-18	110-192	35-48	47-176	35-80	15-21	0.5-1.0	50-160

^a WBC: White blood cells. ^b HGB: haemoglobin. ^c HCT: hematocrite. ^d GOT/AST: glutamic-oxalacetate transaminase (aspartate ketoglutarate aminotransferase). ^e GPT/ALT: glutamic-pyruvate transaminase (alanine aminotransferase); normal value. ^f CRE: creatinine. ^g GLU: glycaemia. ^h From Research Animal Resources, University of Minnesota (http://www.ahc.umn.edu/rar/refvalues.html) and http://www.fauvet.fau.edu/oacm/VetData/Handouts/ratHO.htm (accessed 05/07/2010).

 Table 3S. Summary of the histopathologic studies on PDO1-treated tumours and untreated-tumours.

OBSERVATION	PDO1-treated	untreated
Papillary cystic carcinoma	+	+
Necrosis	-	+++
Presence of immune cells	+++	+/-
Collagen	+++	+/-
Compartmentalization	+	-
Ducts and cords	-	+