

Investigation of the chemistry of the action of triorganotin compounds on mitochondria.

University of East Anglia - Design, Synthesis, and Biological Characterization of Novel Mitochondria Targeted Dichloroacetate

No.	Compounds	I_{50} (μM)							References
		Hela	AS40	HeLa-18	HeLa22	MCF-7	K562	HLA0	
1	Tributyltin	-	824	-	78.7	-	-	-	Dai et al. (2023)
2	BisButyltin	-	77.5	-	74.2	-	-	-	Dai et al. (2023)
3	Triphenyltin	-	90.4	-	85.7	-	-	-	Dai et al. (2023)
4	Methyltin	-	34.4	-	25.7	-	-	-	Dai et al. (2023)
5	BisPhenyltin	-	124	-	12.2	-	-	-	Dai et al. (2023)
6	BisPhenyltin	-	84.0	-	83.2	-	-	-	Dai et al. (2023)
7	Phenyltin	-	72.1	-	2.4	-	-	-	Dai et al. (2023)
8	Methytin	-	85.7	-	82.5	-	-	-	Dai et al. (2023)
9	BisPhenyltin	-	20.8	-	37.8	-	-	-	Dai et al. (2023)
10	Phenyltin	-	82.4	-	2.4	-	-	-	Dai et al. (2023)
11	Methytin	-	177.9	-	122.1	-	-	-	Dai et al. (2023)
12	BisPhenyltin	-	21.8	-	26.5	-	-	-	Dai et al. (2023)
13	Phenyltin	-	32.2	-	2.4	-	-	-	Dai et al. (2023)
14	Polymer	-	184.7	-	194.2	-	-	-	Dai et al. (2023)
15	-	-	0.07	0.07	0.21	-	-	-	Abrams et al. (2023)
16	Homotin	-	-	0.08	0.07	-	-	-	Abrams et al. (2023)
17	Homotin	-	-	0.08	0.07	0.45	-	-	Abrams et al. (2023)
18	Polymer	-	-	0.08	0.083	0.32	-	-	Abrams et al. (2023)
19	GlycineBis(N,N,N',N''-TetraChloroDiphenylPhosphine)	-	-	-	-	4.1	-	-	Kamrul et al. (2023)
20	GlycineBis(N,N,N',N''-TetraChloroDiphenylPhosphine)Dihydrate	-	-	-	-	8.3	-	-	Kamrul et al. (2023)
21	Glycine	78	-	-	-	-	-	-	Abrams et al. (2023)
22	Glycine	38	-	-	-	-	-	-	Abrams et al. (2023)
23	Glycine	208	-	-	-	-	-	-	Abrams et al. (2023)
24	Glycine	1	-	-	-	-	-	-	Abrams et al. (2023)
25	Methyltin	14.4	33	-	-	-	-	-	Abrams et al. (2023)
26	Polymer	0.08	0.11	-	-	-	-	-	Abrams et al. (2023)
27	Methytin	34.9	15.0	-	-	-	-	-	Abrams et al. (2023)
28	Polymer	12.5	34	-	-	-	-	-	Lu et al. (2023)
29	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
30	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
31	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
32	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
33	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
34	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
35	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
36	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
37	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
38	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
39	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
40	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
41	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
42	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
43	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
44	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
45	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
46	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
47	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
48	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
49	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
50	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
51	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
52	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
53	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
54	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
55	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
56	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
57	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
58	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
59	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
60	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
61	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
62	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
63	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
64	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
65	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
66	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
67	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
68	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
69	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
70	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
71	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
72	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
73	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
74	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
75	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
76	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
77	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
78	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
79	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
80	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
81	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
82	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
83	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
84	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
85	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
86	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
87	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
88	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
89	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
90	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
91	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
92	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
93	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
94	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
95	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
96	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
97	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
98	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
99	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
100	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
101	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
102	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
103	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
104	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
105	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
106	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
107	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
108	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
109	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
110	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
111	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
112	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
113	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
114	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
115	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
116	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
117	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
118	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
119	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
120	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
121	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
122	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
123	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
124	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
125	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
126	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
127	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
128	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
129	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
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131	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
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138	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
139	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
140	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
141	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
142	Glycine	-	-	-	-	0.08	-	-	Lu et al. (2023)
143	Glycine	-	-	-	-	0.08</td			

Biological activity studies on organotin(IV)n⁺ complexes and parent compounds

Surprisingly, SHR astrocytes release less Ca 2+ to cytosol than Wistar astrocytes. British chemists were especially prolific.

Triorganotin as a compound with potential reproductive toxicity in mammals

Increased expression of the NF-κB p65 subunit upon nicotine treatment was reported in HK-2 renal proximal tubule cells and was dependent on increased ROS levels and subsequent phosphorylation of ERK and JNK kinases Kim et al. We observed that all kind of hypoxias tested herein induced changes in mitochondrial polarization Fig. Moreover, such differences in the response of individual brain regions to nicotine treatment should be also represented as various alterations in mitochondrial bioenergetics metabolism and different modulation of OXPHOS complexes activities.

Role of Enzymes in Cellular Respiration

Use the diagram below to answer the questions. Reprod Toxicol 2007; 23: 1-11. Cell cycle progression was analyzed using flow cytometry.

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