

SUPPLEMENTARY MATERIAL 1

BIOLOGICAL AND PHARMACOLOGICAL ACTIVITIES OF ISATINS AND DERIVATIVES

Compound	Pharmacological activity	Author(s)	Reference
Isatins	Antiacetylcholinesterase activity	Boar, B.R., O'Shea, D.M., Tomlinson, I.D.	WO 9429272, 22 Dec 1994, 45 pp
Isatins	Anticonvulsant activity	Bhattacharya, S.K., Chakrabarti, A.	<i>Indian J Exp Biol</i> 1998 , 36, 118.
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Isatins	Antinflammatory activity	Andreani, A., Maselli, S.	<i>Boll Chim Farm</i> 1977 , 116, 493.
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Isatins	Antihypertensive activity	Fothergill, G.A., Osbond, J.M.	Eur. Pat. Appl. 1981, 30,380 (CA 95 150439a)
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Isatins	Antihypoxia activity	Stankevicius, A., Mazilis, L., Garaliene, V., Riselis, S., Sapragoniene, M., Dzekorius, L.	<i>Khim.Farm. Zh.</i> 1981 , 15, 31.
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Isatins	Antimicrobial and antiviral activity	Alexandrescu, M., Handrache, L., Murgescu, C.	<i>Ver. Ig [Bacteriol]</i> 1975 , 20, 113.
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Isatins	Antineoplastic activity	Maysinger, D., Movrin, M.	<i>Arzneimittelforschung</i> 1980 , 30, 1839.
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Isatins	Antiulcer activity	Kobayashi, M., Kitazawa, M., Akaha, M., Tsukamoto, T., Yamamoto, R., Nakano, Y.	Jpn. Kokai Tokkyo Koho 1987 JP 62 270,559
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Isatins	Auxin activity	Mukherji, S., Roy, T., Ganguly, G.	<i>Indian J. Exp. Biol.</i> 1975 , 13, 579.
Isatins	Effects on <i>Echinococcus sp</i>	Audin, P., Sarciron, E., Paris, J., Petavy, A.F.	<i>Biochem Pharmacol</i> 1988 Feb 15, 37, 759.
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Isatins	Cysticidal activity	Iman, A.S., Varma, R.S.	<i>Experientia</i> 1975 , 31, 1287.
Isatins	Molluscicidal activity	El.awi, E.A., Mostafa, T.B., Mostafa, B.B.	<i>J. Egypt. Soc. Parasitol.</i> 1998 , 28, 481.
Isatins	Effects on gastrointestinal motility	Fischer, W., Müller, M., Jordan, D.	<i>Acta Biol Med Ger</i> 1980 , 39, 461.
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Isatins	Effects on lipid serum concentration	Kumar, R., Bansal, R.C., Mahmood, A.	<i>Indian J Med Res</i> 1994 , 100, 246.
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Isatins	Pharmacokinetics and Metabolism	Ahmad, M., Alam, M., Mahmood, A.	<i>Proc. Pak. Acad. Sci.</i> 1990 , 27, 1.
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Isatins	Effects on CNS	Abel, E.L.	<i>Physiol Behav</i> 1995 , 57, 611.
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Isatins	Natriuretic peptide receptor antagonism	Bhattacharya, S.K.	<i>Biog. Amine</i> 1998 , 14, 131.
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Isatins	Plant growth stimulation	Applewhite, P.B., Ksawhney, R., Galston, A.W.	<i>Plant Growth Regul.</i> 1994 , 15, 17.
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Isatins	Inhibition of D-glucose uptake and other effects on carbohydrate and aminoacid metabolism	Bansal, R.C., Kumar, P., Sharma, R., Nagpaul, J.P.	<i>Indian J. Biochem. Biophys.</i> 1979 , 16, 93
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Isatins	Tribulin/ Monoamine Oxidase Inhibitors	Armando, I., Lemoine, A.P., Ferrini, M., Segura, E.T., Barontini, M.	<i>Cell. Mol. Neurobiol.</i> 1989 , 9, 115.
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Isatins and oxindoles	Dopaminergic activity	Weinstock, J., Gaitanopoulos, D.E., Stringer, O.D., Franz, R.G., Hieble, J.P., Kinter, L.B., Mann, W.A., Flaim, K.E., Gessner, G.	<i>J Med Chem</i> 1987 , 30, 1166.
Isatins and oxindoles	Anticonvulsant activity	Gevorkyan, K.A., Papayan, G.L., Chshmarityan, S.G., Paronikyan, R.G., Akopyan, N.E.	<i>Khim.Farm. Zh.</i> 1988 , 22, 1203.

Isatin-3-imines or hydrazones	Antiinflammatory activity	Agarwal, S., Pande, A., Saxena, V.K., Chowdhury, S.R.	<i>Indian Drugs</i> 1985 , 22, 633.
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Isatin-3-imines or hydrazones	Antihypertensive/Cardiotonic activity	Eriksson, H.E., Florvall, L.G.	<i>Acta Pharm. Suec.</i> 1976 , 13, 79.
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Isatin-3-imines or hydrazones	Antineoplastic activity	Movrin, M., Marok, E.	<i>Acta Pharm. Jugosl.</i> 1982 , 32, 169.
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Isatin-3-imines or hydrazones	Bronchodilators	Leshner, G.Y., Page, D.F., Gruett, M.D.	U.S. 1982 US 4,322,533 (CA 97 23626a), 30 Mar 1982
Isatin-3-imines or hydrazones	General effects on CNS	Agarwal, C., Agarwal, R., Gupta, P.N., Srivastava, V.K., Misra, V.S.	<i>Acta Pharm. Jugosl.</i> 1983 , 33, 183.
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Isatin-3-imines or hydrazones	Herbicide activity	Ram, V.J., Mishra, L., Pandey, H.N., Vlietinck, A.J.	<i>J. Heterocycl. Chem.</i> 1986 , 1367.
Isatin-3-imines or hydrazones	Hypoglycemic activity	Husain, M.I., Srivastava, V.P.	<i>Indian J. Pharm. Sci.</i> 1984 , 46, 103.

Isatin-3-imines or hydrazones	Immunomodulating activity	Blanc, M., Cussac, M., Boucherle, A., Leclerc, G.	<i>Eur. J. Med. Chem.</i> 1992 , 27, 839.
Isatin-3-oxime	Effects on CNS, including action over amino acid receptors	Cunha, R.A., Constantino, M.D., Ribeiro, J.A.	<i>Eur. J. Pharmacol.</i> 1997 , 323, 167.
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Isatin-3-oxime	Anticonvulsant activity	Watjen, F., Nielsen, E.O., Drejer, J., Jensen, L.H.	<i>Bioorg. Med. Chem. Lett.</i> 1993 , 3, 105.
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Isatin-3-semicarbazones	Antimicrobial and antiviral activity	Samus, N.M., Shlyakhov, E.N., Burdenko, T.A., Simonova, L.L., Tsapkov, V.I.	<i>Khim. Farm. Zh.</i> 1985 , 19, 705.
Isatin-3-thiosemicarbazones	Antinflammatory activity	Tomchin, A.B., Zhmykhova, I.L., Ponomareva, M.M., Pastushenkov, L.G., Gromova, E.G.	<i>Khim. Farm. Zh.</i> 1986 , 20, 1051.

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Isatin-3-thiosemicarbazones	Antineoplastic activity	Movrin, M., Marok, E.	<i>Acta Pharm. Jugosl.</i> 1982 , 32, 169.
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Isatin-3-thiosemicarbazones and analogues	Antiulcer activity	Giannella, M., Pigini, M.	<i>Il Farmaco, Ed. Sc.</i> , 28, 157.
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Isatin-3-thiosemicarbazones	Effects on protein and nucleic acid metabolism	Fox, M.P., Bopp, L.H., Pfau, C.J.	<i>Ann N Y Acad Sci</i> 1977 , 284, 533.
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