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Iotroxic acid

Iotroxic acid (trade name **Biliscopin**), used in the form of **meglumine iotroxate**, is a molecule used as a contrast medium during X-rays.^{[1][2]} It is specifically used during tests looking at the gallbladder and biliary tract.^[2] It is given by slow injection into a vein.^[2]

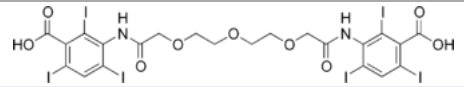
Side effects are uncommon.^[3] They include vomiting, skin flushing, headache, itchiness, and low blood pressure.^[2] Rare side effects include seizures and allergic reactions.^[2] It should not be used by those who have an iodine allergy.^[2] Iotroxic acid is an iodine containing contrast media of the diionic dimer type.^[4]

Iotroxic acid was first made in 1976.^[5] It is on the World Health Organization's List of Essential Medicines.^[6] It is rarely used in the developed world due to the availability of magnetic resonance cholangiopancreatography (MRCP).^[7]

References

- "Iotroxic Acid - Drugs.com" (<https://www.drugs.com/international/iotroxic-acid.html>). *www.drugs.com*. Archived (<https://web.archive.org/web/20161231170334/https://www.drugs.com/international/iotroxic-acid.html>) from the original on 31 December 2016. Retrieved 31 December 2016.
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Iotroxic acid



Clinical data

Trade names	Biliscopin, others
AHFS/Drugs.com	International Drug Names (https://www.drugs.com/international/iotroxic-acid.html)
ATC code	V08AC02 (WHO (https://www.whoc.int/c.no/atc_ddd_index/?code=V08AC02))

Identifiers

IUPAC name	3-{2-[2-(2-[(3-carboxy-2,4,6-triiodophenyl)carbamoyl]methoxy)ethoxy)ethoxy]acetamido}-2,4,6-triiodobenzoic acid
CAS Number	51022-74-3 (https://commonchemistry.cas.org/detail?cas_rn=51022-74-3)
PubChem CID	3740 (https://pubchem.ncbi.nlm.nih.gov/compound/3740)
DrugBank	DB08945 (https://www.drugbank.ca/drugs/DB08945)
ChemSpider	3609 (https://www.chemspider.com/Chemical-Structure.3609.html)

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External links

- "Iotroxic Acid" (<https://druginfo.nlm.nih.gov/drugportal/name/iotroxic%20acid>). *Drug Information Portal*. U.S. National Library of Medicine.

UNII	84C5PTP9X6 (https://precision.fda.gov/uniisearch/srs/unii/84C5PTP9X6)
KEGG	D01388 (https://www.kegg.jp/entry/D01388)
ChEMBL	ChEMBL1651905 (https://www.ebi.ac.uk/chembl/db/index.php/compound/inspect/ChEMBL1651905)
CompTox Dashboard (EPA)	DTXSID3048782 (https://comptox.epa.gov/dashboard/chemical/details/DTXSID3048782)
ECHA InfoCard	100.051.726 (https://echa.europa.eu/substance-information/-/substanceinfo/100.051.726)
Chemical and physical data	
Formula	C ₂₂ H ₁₈ I ₆ N ₂ O ₉
Molar mass	1 215.818 g·mol ^{−1}
3D model (JSmol)	Interactive image (https://chemapps.stolaf.edu/jmol/jmol.php?model=O%3DC%28Nc1c%28I%29c%28c%28I%29cc1I%29C%28%3DO%29O%29COCCOC COCC%28%3DO%29Nc2c%28I%29c%28C%28%3DO%29O%29c%28I%29cc2I)

SMILES

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O=C(Nc1c(I)c(c(I)cc1I)C(=O)O)COCCO  
CCOCC(=O)Nc2c(I)c(C(=O)O)c(I)cc  
2I
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