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Tiratricol

Tiratricol (also known as **TRIAC** or **triiodothyroacetic acid**) is a thyroid hormone analogue. Triiodothyroacetic acid is also a physiologic thyroid hormone that is present in the normal organism in low concentrations.

Uses

It is indicated in the management of thyroid hormone resistance syndrome[1] and is used, in combination with levothyroxine, to suppress thyroid-stimulating hormone production in patients with thyroid cancer.

It has been investigated for use in reducing goiter.[2]

It has also shown some effectiveness in reducing the atrophy caused when using corticosteroids.[3]

Tiratricol has also been widely marketed, under various trade names, as a weight loss aid. In 1999 and 2000, the United States Food and Drug Administration and Health Canada both issued warnings to the public regarding the use of dietary supplements containing tiratricol.[4][5]

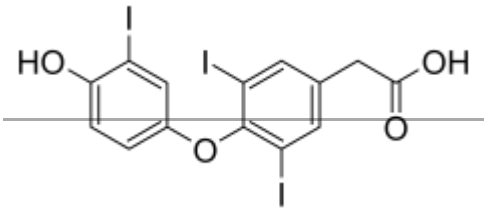
Legal status

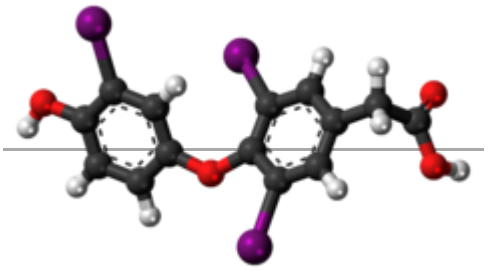
Tiratricol is not approved for sale in Canada or the United States. It was once an approved drug in Brazil, but its marketing authorization was suspended in 2003, effectively prohibiting its sale.[6] Tiratricol is still available in France for therapy of thyroid hormone resistance and adjuvant therapy of thyroid cancer.[7] It is available as an orphan drug to be prescribed by registered specialists in Europe.

References

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Tiratricol





Clinical data	
Other names	3,3',5-triiodothyroacetic acid TRIAC
AHFS/Drugs.com	International Drug Names (https://www.drugs.com/international/tiratricol.html)
ATC code	H03AA04 (WHO (https://www.whocc.no/atc_ddd_index/?code=H03AA04)) D11AX08 (WHO (https://www.whocc.no/atc_ddd_index/?code=D11AX08))
Pharmacokinetic data	
Protein binding	Presumed high
Metabolism	Hepatic glucuronidation
Excretion	Biliary
Identifiers	

rg/10.1590%2FS0004-27302004000100010). PMID 15611821 (https://pubmed.ncbi.nlm.nih.gov/15611821). "Free full text" (http://www.scielo.br/pdf/abem/v48n1/19522.pdf) (PDF). (95.3 KiB)

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7. Laboratoires DB PHARMA: Teatrois (http://www.db-pharma.com/fiche.cfm?id=24) Archived (https://archive.today/20150119005506/http://www.db-pharma.com/fiche.cfm?id=24) 2015-01-19 at archive.today information

External links

- "Tiratricol" (https://druginfo.nlm.nih.gov/drugportal/name/tiratricol). *Drug Information Portal*. U.S. National Library of Medicine.

IUPAC name	[4-(4-hydroxy-3-iodophenoxy)-3,5-diiodophenyl]acetic acid
CAS Number	51-24-1 (https://commonchemistry.cas.org/detail?cas_rn=51-24-1) ✗
PubChem CID	5803 (https://pubchem.ncbi.nlm.nih.gov/compound/5803)
IUPHAR/BPS	2637 (https://www.guidetopharmacology.org/GRAC/LigandDisplayForward?ligandId=2637)
DrugBank	DB03604 (https://www.drugbank.ca/drugs/DB03604) ✓
ChemSpider	5598 (https://www.chemspider.com/Chemical-Structure.5598.html) ✓
UNII	29OQ9EU4R1 (https://precision.fda.gov/uniisearch/srs/unii/29OQ9EU4R1)
KEGG	D07214 (https://www.kegg.jp/entry/D07214) ✓
ChEBI	CHEBI:40021 (https://www.ebi.ac.uk/chebi/searchId.do?chebiId=CHEBI:40021)
ChEMBL	ChEMBL41632 (https://www.ebi.ac.uk/chembldb/index.php/compound/i

	nspect/ChEMBL41632) ✓
CompTox Dashboard (EPA)	DTXSID2045232 (https://comptox.epa.gov/dashboard/chemical/details/DTXSID2045232)
ECHA InfoCard	100.000.079 (https://echa.europa.eu/substance-information/-/substanceinfo/100.000.079)
Chemical and physical data	
Formula	$C_{14}H_9I_3O_4$
Molar mass	621.935 g·mol^{-1}
3D model (JSmol)	Interactive image (https://chemapps.stolaf.edu/jmol/jmol.php?model=Ic2cc%28Oc1c%28I%29cc%28cc1I%29CC%28%3DO%29O%29ccc2O)
SMILES	Ic2cc(Oc1c(I)cc(cc1I)CC(=O)O)ccc2O
InChI	InChI=1S/C14H9I3O4/c15-9-6-8(1-2-12(9)18)21-14-10(16)3-7(4-11(14)17)5-13(19)20/h1-4,6,18H,5H2,(H,19,20) ✓ Key:UOWZUVNAGUAEQC-UHFFFAOYSA-N ✓
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