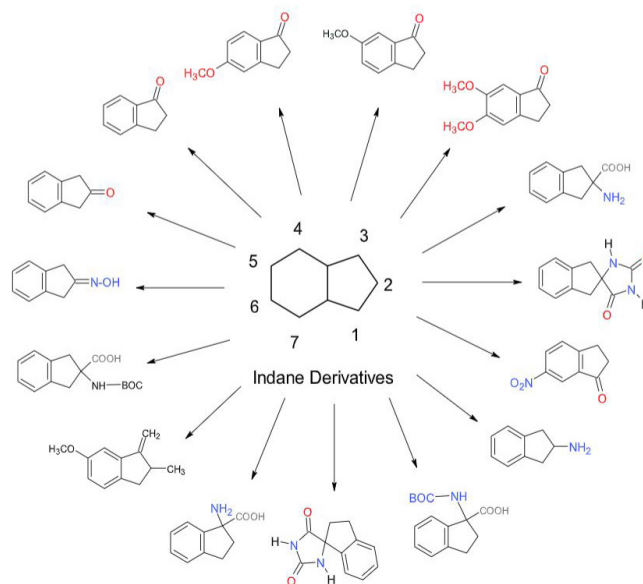


Indane

Derivatives

What are Indanes?

'Indane' and its analogues Indene, 1-Indanone, and 1,3-Indandione present an attractive biological profile for the rational development of therapeutic molecules. The Indane/Indene moieties contain aromatic benzene ring fused with an aliphatic cyclopentane/cyclopentene ring, which provides a rigid bicyclic ring-framework enriched with diverse chemical properties. The multifarious possibilities for varying the substituent pattern on these fused ring systems enable the extensive appraisal of structure-activity relationship analysis of rationally designed therapeutic molecules deliberated at their molecular targets.



Indane analogues serve as useful scaffolds for the development of efficacious pharmaceuticals and commercial drugs, including Indinavir, Sulindac, and Donepezil, whereas the pharmacophores based on Indane moiety such as Aminoindanes and Indanedione contribute towards the development of neuroleptics and neuroprotective molecules. Similarly, the Indane-carboxamide derivatives present a robust candidature as CGRP receptor antagonists, while substituted Indane and its analogue Indene present a privileged profile for the development of anticancer therapeutics by targeting the multifaceted oncologic pathways. Besides, the Indane natural product scaffolds serve as perspective drug candidates with marked therapeutic properties. The present review summarizes the medicinal chemistry aspects of Indane nucleus and its analogues as anticancer, anti-inflammatory, and neuroprotective agents for the coherent development of impending therapeutics.

Cat.Number	CAS	Name
101.640	135944-07-9	N-FMOC-2-Aminoindane-2-carboxylic acid
101.840	33584-60-0	2-Aminoindan-2-carboxylic acid HCl
102.820	2107-69-9	5,6-Dimethoxy-1-indanone
103.000	71066-00-7	N-BOC-2-aminoindan-2-carboxylic acid
103.090	615-13-4	2-Indanone
103.840	5111-70-6	5-Methoxy-1-indanone
103.960	3349-63-1	2-Indanone oxime
104.710	214262-84-7	2-(N-BOC-Amino)-5-(N-FMOC-amino)indan-2-carboxylic acid
104.740	33584-66-6	5'-Nitrospiro[imidazolidine-4,2'-indane]-2,5-dione
104.750	#	2-Amino-5-nitroindane-2-carboxylic acid hydrochloride
104.760	937612-32-3	2-N-(BOC)-amino-5-nitroindane-2-carboxylic acid
105.470	3927-71-7	D,L-1-Aminoindan-1-carboxylic acid
105.960	214139-26-1	N-BOC-D,L-1-aminoindan-1-carboxylic acid
106.040	83-33-0	1-Indanone
106.210	24623-24-3	6-Nitro-1-indanone
106.380	199330-64-8	2-Aminoindane-2-carboxylic acid methyl ester HCl
106.390	134425-84-6	2-Aminoindane-2-carboxylic acid methyl ester
108.990	13623-25-1	6-Methoxy-1-indanone