



CHEBI:72588 - semisynthetic derivative

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ChEBI Name	semisynthetic derivative
ChEBI ID	CHEBI:72588
Definition	Any organic molecular entity derived from a natural product by partial chemical synthesis.
Stars	☆☆☆ This entity has been manually annotated by the ChEBI Team.

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Semisynthesis, or partial [chemical synthesis](#), is a type of chemical synthesis that uses [chemical compounds](#) isolated from [natural sources](#) (such as [microbial](#) cell cultures or [plant](#) material) as the starting materials to produce other novel compounds with distinct chemical and medicinal properties. The novel compounds generally have a high [molecular weight](#) or a complex molecular structure, more so than those produced by [total synthesis](#) from simple starting materials. Semisynthesis is a means of preparing many medicines more cheaply than by total synthesis since fewer chemical steps are necessary.

[Read full article at Wikipedia](#)

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Outgoing semisynthetic derivative ([CHEBI:72588](#)) **is a** organic molecular entity ([CHEBI:50860](#))

Incoming

21-deoxyconcanamycin A ([CHEBI:77921](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
21-phosphorifampicin ([CHEBI:140276](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
3-aza-A-homocholest-4a-en-4-one ([CHEBI:79753](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
6'-O-acetylpaeoniflorin ([CHEBI:132815](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
6-bromoharmine ([CHEBI:72481](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
N-butylharmine ([CHEBI:66002](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
N-ethylharmine ([CHEBI:66003](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
N²-methylharmine ([CHEBI:66005](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
O-(chloroacetylcarbamoyl)fumagillol ([CHEBI:90748](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
anidulafungin ([CHEBI:55346](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
artemether ([CHEBI:195280](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
artesunate ([CHEBI:63918](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
azlocillin ([CHEBI:2956](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
caspofungin ([CHEBI:474180](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cefaloridine ([CHEBI:3537](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cefalotin ([CHEBI:124991](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cefamandole ([CHEBI:3480](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cefatrizine ([CHEBI:131730](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cefazedone ([CHEBI:131731](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cefotiam ([CHEBI:355510](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cefoxitin ([CHEBI:209807](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cefprozil ([CHEBI:3506](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cephalexin ([CHEBI:3534](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
clindamycin ([CHEBI:3745](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
clometocillin ([CHEBI:131732](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
cloxacillin ([CHEBI:49566](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
dalbavancin ([CHEBI:82721](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
dihydroergotamine ([CHEBI:4562](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
emodeside ([CHEBI:78739](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
epinomectin component B_{1a} ([CHEBI:82597](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
epinomectin component B_{1b} ([CHEBI:82598](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
flurithromycin ([CHEBI:131719](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
GM 193663 ([CHEBI:77908](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
KT 5720 ([CHEBI:85085](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
leucascandrolide A congener ([CHEBI:82622](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
oritavancin ([CHEBI:82699](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
oxycodone ([CHEBI:7852](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
penamecillin ([CHEBI:131733](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
retaspimycin ([CHEBI:71975](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
ridaforolimus ([CHEBI:82677](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
rifampicin ([CHEBI:28077](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
rifaximin ([CHEBI:75246](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
roxithromycin ([CHEBI:48844](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
rubitecan ([CHEBI:90225](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
SH-11037 ([CHEBI:132925](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
statin (semi-synthetic) ([CHEBI:87633](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
tiamulin ([CHEBI:44137](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
troleandomycin ([CHEBI:45735](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
TX-1875 ([CHEBI:134260](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))
vinflunine ([CHEBI:90241](#)) **is a** semisynthetic derivative ([CHEBI:72588](#))

Synonyms 

semi-synthetic compound


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Semisynthesis

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26 February 2018



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