

Chiral Molecules Bringing New Hope for Drug Development



Application

Chiral tetraarylmethanes (CTAMs), display good deterrent effects against cancer cells such as those of cervical, lung, breast and colorectal, as well as the virus causing the Hand, Foot and Mouth disease (HFMD) and a type of coronavirus.

The global chiral chemicals market size was valued at USD 39.79 billion in 2015 and is likely to witness considerable growth on account of heavy investments by manufacturers in emerging economies and increasing government focus on pharmaceutical manufacturing.¹



Technology

Chiral spherical molecules have long been an overlooked domain, our technology is to use the tags implanted on the existing aryl groups to spot and direct the fourth one in approaching the middle carbon via a specific route, which leads to the discovery and acquisition of entirely new organic structure-chiral tetraarylmethanes.



Talk to Us

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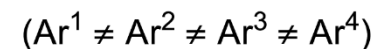
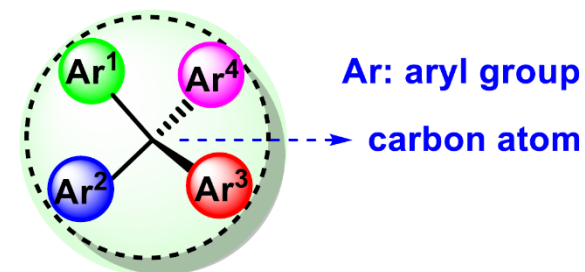
1. According to Market research report: "Chiral Chemicals Market Analysis By Application (Pharmaceuticals, Agrochemicals, Flavors/Fragrances), By Technology (Biological Separation, Asymmetric Preparation), And Segment Forecasts 2016 - 2024", ID: GVR-1-68038-176-4, published by Grand View Research, Inc. in 2016)



Advantages

CTAMs are a type of "smart" molecules with specific molecular shapes and absolute configuration showed great promise in the development of novel drugs with intriguing pharmaceutical properties

- toxicity 28 times lower than Doxorubicin
- Anti-cancer (e.g. cervical, lung, breast and colorectal)
- Anti-viral (e.g. enterovirus A71, cold virus OC43, coronaviruses)



Chiral Tetraarylmethanes (CTAMs)

Fig 1. The Chiral Tetraarylmethanes (CTAMs).



Intellectual Properties

PCT Application: PCT/CN2020/070124

