



**ADC**

**浙江晖达生物科技有限公司**

**Zhejiang Huida Biotech Co., Ltd.**

**华东医药 (000963.SZ) 旗下品牌**  
**[www.huidabiotech.com](http://www.huidabiotech.com)**  
**[www.huidacollection.com](http://www.huidacollection.com)**

## COMPANY INTRODUCTION

Zhejiang Huida Biotech Co., Ltd. was established in early 2020, which is the holding subsidiary of Huadong Medicine Co., Ltd. and is located in Hangzhou, Zhejiang Province. As an innovation-oriented company, Huida Biotech focuses on the research and development of APIs, intermediates and healthcare products from microbial fermentation, semi-synthesis and total synthesis. Meanwhile, our company also carries out international drug cooperation business.

In recent years, as the innovative R&D platform of Huadong Medicine industrial microorganism and leading developer of microbial active compounds, Huida Biotech focuses on the development of high-tech and high value-added products from microbial fermentation and has a platform for microbial construction, metabolite expression, purification and modification based on synthetic biology and multi-scale microbial metabolic regulation technology. We also have rich technical reserves and commercial capabilities in the development and production of the toxins and linkers required by ADC, which can provide customers with more choices and solutions.

At present, Huida Biotech not only has solid R&D strength with well-established platforms, including Strain Identification & Preservation Platform, Strain Breeding & Genetic Modification Platform, Fermentation Process Optimization Platform, Extraction & Purification Platform, Enzyme Engineering Platform and Chemical Synthesis Platform, but also can provide CRO and CDMO in the field of microorganism and synthesis for domestic and foreign pharmaceutical companies.

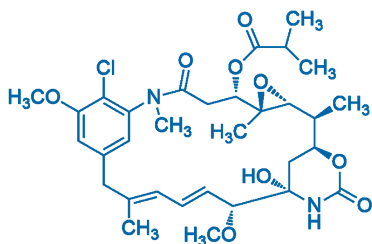
## PRODUCT PORTFOLIO

- High Potent API (ADC payload and other oncology APIs)
- Nucleosides
- Health&Cosmetic
- Anti-infective



# ADC

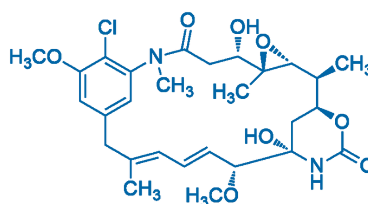
## Series of Mertansine



**Ansamitocin P-3**

**66584-72-3**

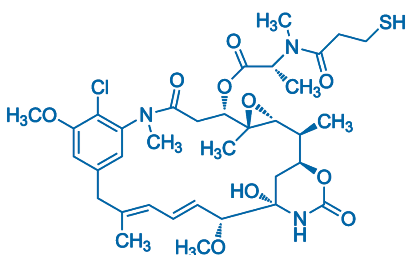
**Purity  $\geq$ 98%**



**Ansamitocin P-0**

**57103-68-1**

**Purity  $\geq$ 98%**

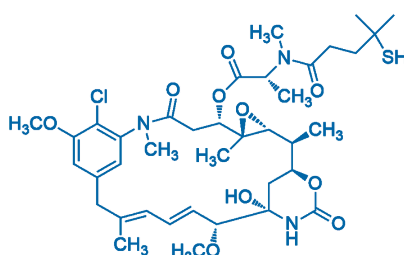


**DM1**

**139504-50-0**

**Purity  $\geq$ 98%**

**US DMF No. 037293**



**DM4**

**796073-69-3**

**Purity  $\geq$ 98%**

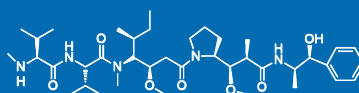
# ADC

## Series of MMAE

### Monomethyl auristatin E (MMAE)

474645-27-7

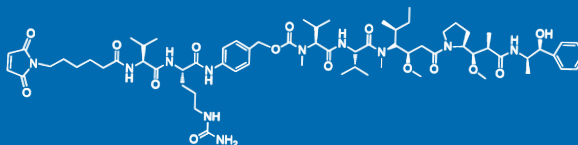
Purity  $\geq 99\%$



### VcMMAE

646502-53-6

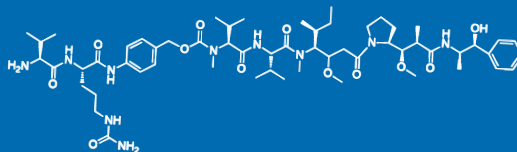
Purity  $\geq 99\%$



### Val-Cit-PAB-MMAE

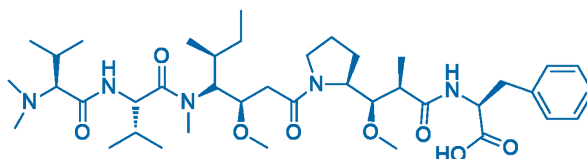
644981-35-1

Purity  $\geq 99\%$



# ADC

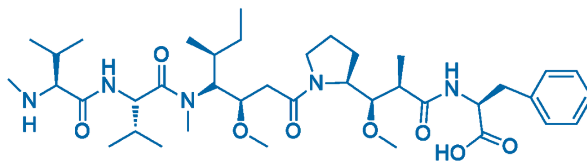
## Series of MMAF



### Auristatin F (AF)

163768-50-1

Purity  $\geq 98\%$



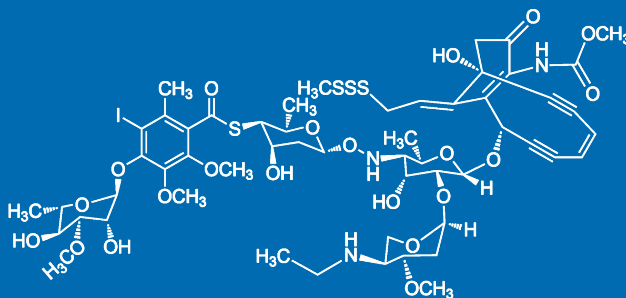
### Monomethylauristatin F (MMAF)

745017-94-1

Purity  $\geq 98\%$

# ADC

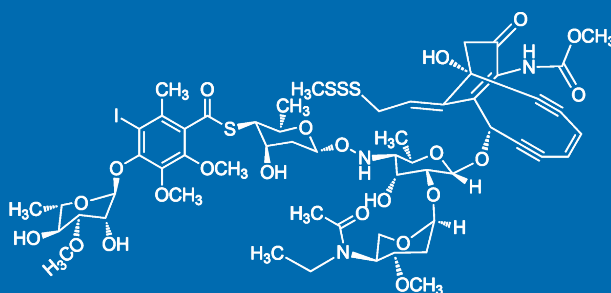
## Series of Calicheamicin



### Calicheamicin

108212-75-5

Purity  $\geq 98\%$



### N-Acetyl-Calicheamicin

108212-76-6

Purity  $\geq 98\%$

# PRODUCT LIST

## ADC Payload

Product Name	CAS No.	Area
Exatecan Mesylate	169869-90-3	ADC payload
Exatecan	171335-80-1	ADC payload
DXD	1599440-33-1	ADC payload
Ansamitocin P-3	66584-72-3	ADC payload
Ansamitocin P-0	57103-68-1	ADC payload
DM1	139504-50-0	ADC payload
DM4	796073-69-3	ADC payload
PDM-3	72902-38-6	ADC payload
N-Me-L-Ala-Maytansinol	77668-69-0	ADC payload
Auristatin F	163768-50-1	ADC payload
MMAF	745017-94-1	ADC payload
MMAE	474645-27-7	ADC payload
Calicheamicin	108212-75-5	ADC payload
N-Acetyl-Calicheamicin	108212-76-6	ADC payload





# PRODUCT LIST

## ADC Payload

Product Name	CAS No.	Area
Thailanstatin A	1426953-21-0	ADC payload
FR901464	146478-72-0	ADC payload
Spliceostatin A	391611-36-2	ADC payload
Sibiromycin	12684-33-2	ADC payload
Doxorubicin	23214-92-8	ADC payload
Duocarmycin	1116745-06-2	ADC payload
Dynemicin	124759-75-7	ADC payload
Esperamicin	99674-26-7	ADC payload
Streptonigrin	3930-19-6	ADC payload

# PRODUCT LIST

Linker; Payload+Linker

Product Name	CAS No.	Area
SMCC	64987-85-5	ADC Linker
DM1-SMCC	1228105-51-8	ADC Payload + Linker
Doxorubicin-SMCC	400647-59-8	ADC Payload + Linker
Sulfo-SPDB	1193111-39-5	ADC Linker
Sulfo-SNDB	1193111-37-3	ADC Linker
MC-Val-Ala-PAB	1870916-87-2	ADC Linker
MC-Val-Cit-PAB	159857-80-4	ADC Linker
MC-OSu	55750-63-5	ADC Linker
VcMMAE	646502-53-6	ADC Payload + Linker
Val-Cit-PAB-MMAE	644981-35-1	ADC Payload + Linker

# PRODUCT LIST

## Oncology

Product Name	CAS No.	Area
Didemnin B	77327-05-0	Oncology
Plitidepsin	137219-37-5	Oncology
Geldanamycin	30562-34-6	Oncology
Staurosporine	62996-74-1	Oncology
Midostaurin	120685-11-2	Oncology
Distamycin	636-47-5	Oncology
Epirubicin	56420-45-2	Oncology
Epothilone B	152044-54-7	Oncology
Fumagillin	23110-15-8	Oncology
Illudin S	1149-99-1	Oncology
Illudin M	1146-04-9	Oncology
Acylfulvene	125392-76-9	Oncology
Irofulven	158440-71-2	Oncology
K252a	99533-80-9	Oncology

# PRODUCT LIST

## Oncology

Product Name	CAS No.	Area
Marizomib	437742-34-2	Oncology
Mitomycin C	50-07-7	Oncology
Mithramycin	18378-89-7	Oncology
Oligomycin A	579-13-5	Oncology
Pentostatin	53910-25-1	Oncology
Phleomycin	11006-33-0	Oncology
Porfiromycin	801-52-5	Oncology
Rhodomycin	1401-16-7	Oncology
Romidepsin	128517-07-7	Oncology
Safracin B	87578-99-2	Oncology
Aclacinomycin	66676-88-8	Oncology
Netropsin	1438-30-8	Oncology

# TECHNOLOGY PLATFORM

## Strain Technology

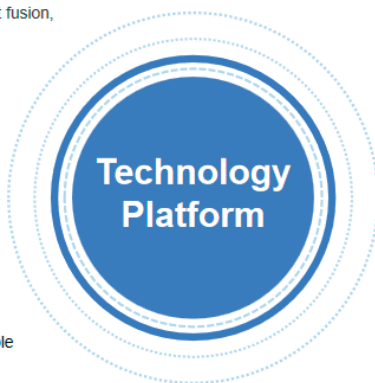
Genetic engineering directed breeding,  
Physicochemical factors induced breeding, High  
throughput screening technique, Protoplast fusion,  
Space breeding technology etc.  
Strain preservation and identification

## Fermentation Process Optimization

Experienced in the optimization of  
fermentation process at lab scale to pilot  
and commercial scale

## Synthetic biology

Applied for complex and chemically unstable  
molecules or reactions to promote green  
chemistry.



## Down Stream Process

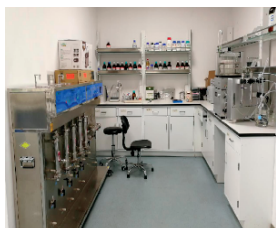
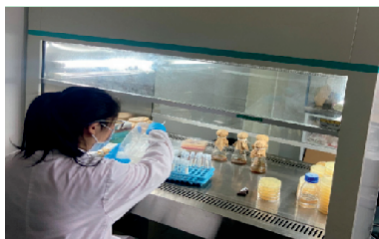
Highly knowledgeable in the recovery and purification  
of biological products from complex sources such as  
fermentation or cell cultures that represent a major  
challenge for the provision of safe and effective  
products

## Chemical Synthesis

Specialized in the development of toxin mainly used  
for ADC, development and application of nucleotides  
and modified nucleosides, modification of natural  
compounds with complicated structure, and  
modification of natural compounds with complicated  
structure

## Analysis Technology

Equipped with regular analytical instruments for  
physical & chemical tests, including HPLC, TG, NMR etc.  
Capable of develop and validate testing method for  
release testing



# BUSINESS MODEL

## ■ PARTNER MODEL

Supply APIs and Intermediates

## ■ ONE STOP CXO SERVICE (e.g. Fermentation)



- Lab scale: equipped with 30L to 200L fermentation tanks imported or domestic sourced
- Pilot scale: equipped with fully automatic fermentation tanks of different volume from 4,000L to 12,000L
- Commercial scale: Fermentation tanks of 10,000L to 120,000L
- Equipped with synthetic and other equipments

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