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Antimalarial Ligands

Bioactive Small Molecules

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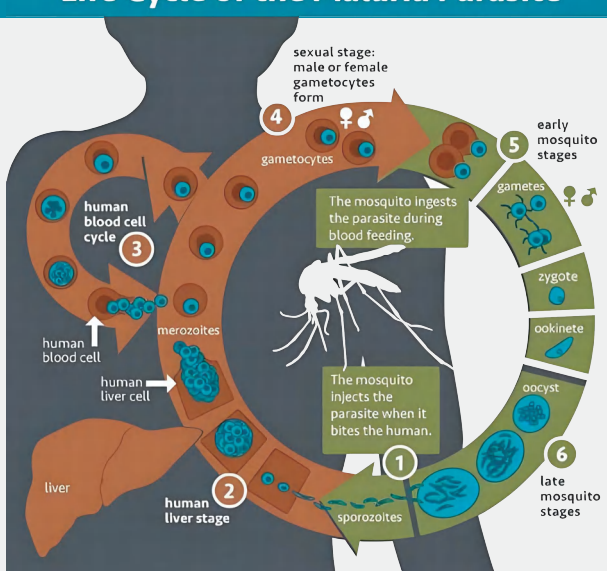
Preamble

In the current global public health domain, the research and development of antimalarial ligands hold extremely significant importance. Malaria, a severe infectious disease caused by Plasmodium parasites, poses a tremendous threat to human health. Antimalarial ligands are a class of compounds specifically targeting key sites in the life cycle of Plasmodium parasites. By specifically binding to these targets, they effectively inhibit the growth and reproduction of Plasmodium. These ligands not only provide important tools for a deeper understanding of the biological characteristics of Plasmodium but also have great potential in the development of new antimalarial drugs.

In terms of scientific research applications, antimalarial ligands play a crucial role in multiple fields. Firstly, they are widely used in molecular target research, helping scientists reveal the key pathways for the survival and replication of Plasmodium. For example, by studying the interactions between antimalarial ligands and specific Plasmodium proteins, one can gain a deeper understanding of the metabolic pathways and signal transduction mechanisms of Plasmodium. Moreover, antimalarial ligands also play an important role in the study of drug mechanisms of action. They can help elucidate the mechanisms of existing antimalarial drugs, providing a theoretical basis for optimizing drug performance and developing new drugs.

In drug screening and optimization, antimalarial ligands are equally indispensable. In experiments, they are used to identify and optimize potential antimalarial drug candidates, thereby accelerating the development process of new drugs. At the same time, antimalarial ligands also play a significant role in studying the mechanisms of Plasmodium resistance to existing drugs. For instance, by analyzing the interactions between antimalarial ligands and Plasmodium proteins related to drug resistance, one can reveal the molecular basis of resistance and provide strategies for overcoming drug resistance issues.

Life Cycle of the Malaria Parasite



Cat.No	Product Name	CAS	Specification/Purity	Size
A110206	Artemisinin	63968-64-9	Moligand ™ , ⩾ 98%	1g;5g;25g;100g
A110205	Artemisinin	63968-64-9	Moligand ™ , analytical standard	20mg;100mg; 500mg;1g
A408062	Artemisinin	63968-64-9	Moligand ™ , 10mM in DMSO	1ml
D140839	Dihydroartemisinin	71939-50-9	Moligand ™ , ⩾ 98%	1g;5g;25g
D110217	Dihydroartemisinin	71939-50-9	Moligand ™ , analytical standard, ⩾ 98%, mixture of α and β isomers	25mg;50mg; 100mg;250mg; 1g;5g
D408236	Dihydroartemisinin (DHA)	71939-50-9	Moligand ™ , 10mM in DMSO	1ml
D189218	Dihydroartemisinin	81496-82-4	⩾ 98%, mixture of α and β isomers	1g;5g;25g;100g
C193834	Chloroquine	54-05-7	Moligand ™ , ⩾ 97%	50mg;250mg;1g; 5g;25g
C424619	Chloroquine	54-05-7	Moligand ™ , 10mM in DMSO	1ml
C129284	Chloroquine Phosphate	50-63-5	⩾ 99%	5g;10g;25g;100g; 500g;2.5kg
C424360	Chloroquine Phosphate	50-63-5	10mM in Water	1ml
C670960	Chloroquine dihydrochloride	3545-67-3	⩾ 97%	1mg;25mg;100mg; 250mg;1g
C586514	Hydroxychloroquine	118-42-3	Moligand ™ , ⩾ 98%	250mg;1g;5g;25g; 100g
D330775	Didesethyl Chloroquine	4298-14-0	Moligand ™ , ⩾ 98%	1mg;5mg;10mg; 25mg;50mg
A331454	Amodiaquine	86-42-0	Moligand ™ , ⩾ 98%	5mg;10mg;25mg; 50mg;100mg
A426427	Amodiaquine	86-42-0	Moligand ™ , 10mM in DMSO	1ml
A413291	Amodiaquine hydrochloride	69-44-3	⩾ 98%	5g;10g;25g;100g; 500g
A425562	Amodiaquine hydrochloride	69-44-3	10mM in DMSO	1ml
A135245	Amodiaquin dihydrochloride dihydrate	6398-98-7	⩾ 97%	5g;25g;100g
A425246	Amodiaquin dihydrochloride dihydrate	6398-98-7	10mM in DMSO	1ml
N330513	N-Desethyl amodiaquine	79352-78-6	⩾ 95%	5mg;10mg;25mg; 50mg
Q105031	Quinine	130-95-0	Moligand ™ , ⩾ 97%	5g;10g;25g;100g; 500g
Q105030	Quinine	130-95-0	Moligand ™ , for fluorescence analysis, ⩾ 98%	1g;5g;25g;100g
Q421202	Quinine	130-95-0	Moligand ™ , 10mM in DMSO	1ml
Q431754	(-)-Quinine	130-95-0	Moligand ™ , for resolution of racemates for synthesis	25g
Q304127	Quinine dihydrochloride	60-93-5	⩾ 98%	1g;5g;25g;100g

Cat.No	Product Name	CAS	Specification/Purity	Size
Q109702	Quinidine	56-54-2	Moligand ™ , ⩾ 98%, contains 5-15% Dihydroquinidine	1g;5g;25g;100g
Q109529	Quinidine Sulfate	6591-63-5	⩾ 98%	1g;5g;25g;100g
Q425325	Quinidine Sulfate	6591-63-5	10mM in DMSO	1ml
P187973	Primaquine	90-34-6	Moligand ™ , ⩾ 95%	250mg;1g;5g
P304229	Primaquine bisphosphate	63-45-6	⩾ 98%	1g;5g;25g;100g
P425219	Primaquine bisphosphate	63-45-6	10mM in DMSO	1ml
F412600	Ferroquine	185055-67-8	Moligand ™ , ⩾ 97%	5mg;10mg;25mg; 50mg;100mg
M611789	Mepacrine	83-89-6	Moligand ™ , ⩾ 98%	5mg;25mg;100mg
S118395	Sulfadoxin	2447-57-6	⩾ 96%	5g;10g;25g;50g; 100g
S118396	Sulfadoxin	2447-57-6	analytical standard	250mg
S422829	Sulfadoxin	2447-57-6	10mM in DMSO	1ml
S105342	Sulfamethoxazole	723-46-6	Moligand ™ , analytical standard, ⩾ 99%	250mg;500mg;1g; 5g;25g
S105341	Sulfamethoxazole	723-46-6	Moligand ™ , ⩾ 98%	5g;25g;100g;500g
S408407	Sulfamethoxazole	723-46-6	Moligand ™ , 10mM in DMSO	1ml
N140734	N-Acetyl Sulfamethoxazole	21312-10-7	⩾ 98%	25mg;100mg; 250mg;500mg;1g
N132325	N-Acetyl Sulfamethoxazole	21312-10-7	analytical standard	25mg
S421805	Sulfalene	152-47-6	Moligand ™ , 10mM in DMSO	1ml
S161012	Sulfalene	152-47-6	Moligand ™ , ⩾ 98%(HPLC)	1g;5g;25g;100g
P114361	Pyrimethamine	58-14-0	Moligand ™ , analytical standard	250mg;5g
P141438	Pyrimethamine	58-14-0	Moligand ™ , ⩾ 98%	1g;5g;25g;100g
P409195	Pyrimethamine	58-14-0	Moligand ™ , 10mM in DMSO	1ml
L426126	Lumefantrine	82186-77-4	Moligand ™ , 10mM in DMSO	1ml
L136783	Lumefantrine	82186-77-4	Moligand ™ , ⩾ 98%(HPLC)	1g;5g;25g;100g; 500g
H413919	Halofuginone	55837-20-2	Moligand ™ , ⩾ 98%	5mg;25mg;100mg; 250mg
H424746	Halofuginone	55837-20-2	Moligand ™ , 10mM in DMSO	1ml
P612838	piperaquine	4085-31-8	Moligand ™ , ⩾ 98%	5mg;25mg
P413276	Piperaquine phosphate	85547-56-4	⩾ 98%	25mg;1g;5g;25g; 100g
P426376	Piperaquine phosphate	85547-56-4	2mM in Water	1ml

Cat.No	Product Name	CAS	Specification/Purity	Size
L107328	Luteolin	491-70-3	Moligand ™ , analytical standard, ⩾ 98%	20mg;2g
L107329	Luteolin	491-70-3	Moligand ™ , ⩾ 98%(HPLC)	250mg;500mg; 1g;5g;25g;100g
L409168	Luteolin	491-70-3	Moligand ™ , 10mM in DMSO	1ml
P413369	Proguanil	500-92-5	Moligand ™ , ⩾ 96%	5mg;25mg; 100mg;500mg
P424316	Proguanil	500-92-5	Moligand ™ , 10mM in DMSO	1ml
N172464	NITD-609	1193314-23-6	Moligand ™ , ⩾ 97%	1mg;5mg;10mg; 25mg;100mg
M173331	MMV-390048	1314883-11-8	Moligand ™ , ⩾ 97%	1mg;5mg;25mg; 50mg;100mg
D609783	DDD85646	1215010-55-1	Moligand ™ , ⩾ 98%	1mg;5mg;10mg; 25mg;50mg; 100mg
D412165	DDD107498	1469439-69-7	Moligand ™ , ⩾ 98%	5mg;10mg; 25mg; 50mg;100mg
D421710	DDD107498	1469439-69-7	Moligand ™ , 10mM in DMSO	1ml
D609991	DSM502	2426616-55-7	Moligand ™ , ⩾ 98%	1mg;5mg;10mg; 25mg
D656251	DSM502	2426616-55-7	Moligand ™ , 10mM in DMSO	1ml
E412133	ELQ-300	1354745-52-0	Moligand ™ , ⩾ 98%	5mg;10mg; 25mg;50mg
K413526	KDU691	1513879-19-0	Moligand ™ , ⩾ 98%	2mg;5mg;10mg; 25mg;50mg; 100mg
K421794	KDU691	1513879-19-0	Moligand ™ , 10mM in DMSO	1ml
S613594	(+)-SJ733	1424799-20-1	Moligand ™ , ⩾ 98%	1mg;5mg;25mg
A413439	Altiratinib	1345847-93-9	Moligand ™ , ⩾ 99%	5mg;25mg; 100mg
A421300	Altiratinib	1345847-93-9	Moligand ™ , 10mM in DMSO	1ml
A107447	Artemether	71963-77-4	Moligand ™ , ⩾ 98%	1g;5g;25g;100g
A408339	Artemether	71963-77-4	Moligand ™ , 10mM in DMSO	1ml
A304568	Arteether	75887-54-6	Moligand ™ , ⩾ 97%	25mg;100mg
A304569	Arteether	75887-54-6	Moligand ™ , analytical standard	5mg;25mg
A425858	Arteether	75887-54-6	Moligand ™ , 10mM in DMSO	1ml
D656251	DSM502	2426616-55-7	Moligand ™ , 10mM in DMSO	1ml
E412133	ELQ-300	1354745-52-0	Moligand ™ , ⩾ 98%	5mg;10mg; 25mg;50mg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