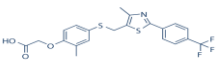
Cardarine(GW501516) Datasheet

Technical Data

Molecular Weight (MW)	453.498 g/mol
Formula	C21H18F3NO3S2
CAS No.	317318-70-0
Synonyms	GW501516, Cardarine

Solubility (25°C)	DMSO 78 mg/mL			
	Water <1 mg/mL			
	Ethanol 78 mg/mL			
Storage	4 years	-20°C	Powder	
	2 weeks	4°C	in DMSO	
	6 months	-80°C	in DMSO	

GW501516 Chemical Structure



Biological Activity

Description	Cardarine, known as GW-501516 is a PPAR receptor agonist. It was developed by two companies, Ligand Pharma and GlaxoSmithKline
Targets	PPAR receptor
IC50	3.8 nM (K_i) [1]
In vitro	GW 501516 decreased the IFN-γ-induced up-regulation of TNF-α and iNOS in accord with the proposed anti-inflammatory effects of this PPAR-β agonist. However, it increased IL-6 m-RNA expression. In demyelinating cultures, reactivity of both microglial cells and astrocytes was observed, while the expression of the inflammatory cytokines and iNOS remained unaffected. [1]
In vivo	PPARdelta agonists L-165041 [4-[3-(4-acetyl-3-hydroxy-2-propylphenoxy)-propoxyl]phenoxy]-acetic acid] and GW501516 [2-methyl4-((4-methyl-2-(4-trifluoromethylphenyl)-1,3-triazol-5-yl)-methylsulfanyl)phenoxy acetic acid] protect against cytotoxin-induced SH-SY5Y cell injury in vitro and both ischemic brain injury and 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) neurotoxicity in vivo [2]
Clinical Trials	Discontinued
Features	Cardarine shows promise in the treatment of insulin resistance and type 2 diabetes.

Protocol (Only for Reference)

Kinase Assay: [1]

In vitro competitive radioligand binding assay	No data

Animal Study:[1]

Animal Models	Immature castrated male Sprague-Dawley rats
Formulation	Dissolved in DMSO, and diluted in saline
Doses	1 mg/day
Administration	Subcutaneous injection

References

[1] https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2687435/
[2] https://www.ncbi.nlm.nih.gov/pubmed/17167170

PLEASE KEEP THE PRODUCT UNDER -20°C FOR LONG-TERM STORAGE.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE

Return Policy

We hope this product has arrived safely with our courier. If there is a problem with your product, please contact us.

We accept returns as long as less than 20% of the product has been used and there is a problem with the substance.

We do not accept returns because of miss ordering for safety reasons.

Orders & Support

support@maxmusclelabs.com

We will contact you within one business day

Website:

maxmusclelabs.com