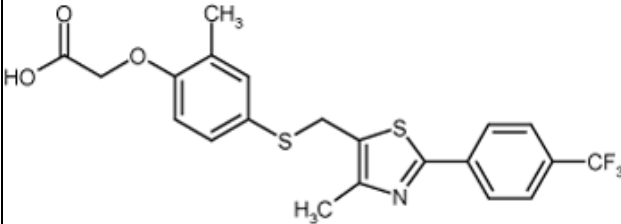




Georgian Chemical
Manufacture

Certificate of Analysis

GCM Cat#:	Product Name:	Lot#:
319520	Cardarine	021

Chemical name	
{4-[(4-methyl-2-[4-(trifluoromethyl)phenyl]-1,3-thiazol-5-yl)methyl]sulfanyl}-2-methylphenoxy}acetic acid	
Synonyms	
GW501516; GW-501516; GW1516; GW-1516; GSK-516; GSK 516; GSK516; Endurobol	
Chemical structure	CAS# and Theoretical analysis
	GCM Cat#: 319593 Name: Cardarine CAS#: 317318-70-0 Lot#: 021 Chemical Formula: C ₂₁ H ₁₈ F ₃ NO ₃ S ₂ Exact Mass: 453.068 Molecular Weight: 453.4942

Analysis item	Specifications / Results
Appearance	Yellow solid powder
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.
Purity (HPLC)	>98.0%
Solubility	Soluble in DMSO.
Conclusion	This product conforms with GCM's quality standards
Shipping condition	Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs.
Storage condition	Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition
Shelf life	At least 5 years if properly stored.

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE