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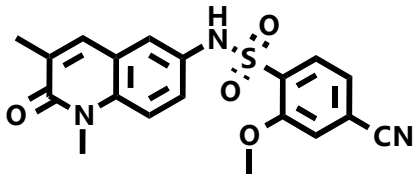
BRPF Bromodomain Inhibitor – NI-57

Chemical Name: 4-cyano-N-(1,3-dimethyl-2-oxo-1,2-dihydroquinolin-6-yl)-2-methoxybenzenesulfonamide



Molecular Weight:	383.42
Formula:	$C_{19}H_{17}N_3O_4S$
Purity:	≥98%
CAS#:	n/a
Solubility:	DMSO up to 100 mM
Storage	Powder: 4°C 1 year DMSO: 4°C 3 month -20°C 1 year

Biological Activity:

NI-57 is a potent and selective inhibitor of the bromodomain of the BRPFs. It binds to BRPF1B with a KD of 31 nM (ITC), to BRPF2 with a KD of 108 nM (ITC) and to BRPF3 KD of 408 nM (ITC). NI-57 is very selective against other non-Class IV bromodomains, including the BETs, has minimum 32-fold selectivity against BRD9. It shows accelerated FRAP recovery at 1 μM in the BRPF2 FRAP assay preventing binding of full-length BRPF2 to chromatin.

How to Use:

In vitro: NI-57 was used at 10 μM final concentration in vitro and in cellular assays.

In vivo: n/a

Reference:

1. http://www.thesgc.org/chemical-probes/NI-57/teaser.