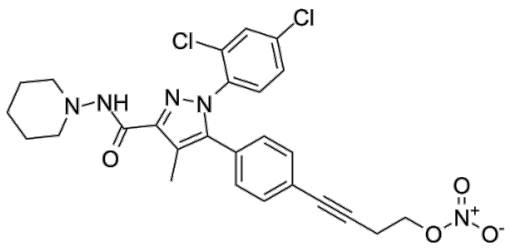
Product Data Sheet

Product Name: AM-6538
Cat. No.: GC62835

Chemical Properties

Cas. No.	1245626-00-9		
Formula	$C_{26}H_{25}Cl_2N_5O_4$	M.Wt	542.41
Solubility	DMSO : 180 mg/mL (331.85 mM; Need ultrasonic)	Storage	
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

AM6538 is a long-acting, high affinity and pseudo-irreversible cannabinoid (CB) antagonist. AM6538 is a structural analog of rimonabant. AM6538 can be effectively used to evaluate the apparent efficacy of cannabinoid full and partial agonists. AM6538 may be useful in future studies that require temporary reductions in cannabinoid receptor availability[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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AM6538 is a cannabinoid antagonist that binds CB1 receptors expressed in HEK-293 cells in a wash-resistant manner[1].

AM6538 (1~10 mg/kg) antagonizes the antinociceptive effects of cannabinoid agonists in mice[1].AM6538 (10 mg/kg) shows that there are some recovery in the effects of AM4054. AM6538 dose dependently decreases the tau values for all cannabinoid agonists, reflecting reductions in the available receptors. AM6538 produces enduring antagonism, with robust effects on the tetrahydrocannabinol dose-effect function evident up to 7 days after treatment[1].

[1]. Paronis CA, et al. Long-Lasting In Vivo Effects of the Cannabinoid CB1 Antagonist AM6538. J Pharmacol Exp Ther. 2018;364(3):485-493.

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