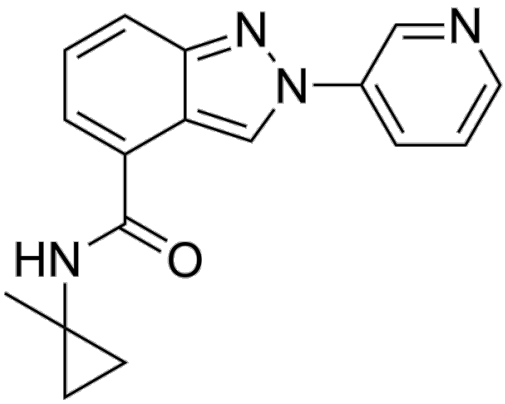
Product Data Sheet

Product Name: Indazapyroxamet
Cat. No.: GC79523

Chemical Properties

Cas. No.	1689545-27-4		
Formula	$C_{17}H_{16}N_4O$	M.Wt	292.34
Solubility		Storage	Store at -20°C
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

Indazapyroxamet is an orally active insect TRPV channel (Nan/Iav subunit) modulator and insecticide. Indazapyroxamet antagonizes nicotinamide-induced calcium influx, inhibits insect motor function, and impairs negative geotaxis in wild-type Drosophila melanogaster via functional TRPV channels [1].

In Vivo, Indazapyroxamet (50-400 μM; p.o.; single 3-hour feeding) induces dose-dependent impairment of negative geotaxis in wild-type Drosophila with a climbing index reduction to ~0.18 at 400 μM, and this behavioral effect requires functional TRPV channels as it is completely abolished in

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Nan and Iav loss-of-function mutants[1].

In Vitro, Indazapyroxamet (10 min) acts as a low-efficacy partial agonist (EC50=13.1 nM) and potent antagonist (IC_{50}=8.1 nM) of the brown planthopper TRPV channel expressed in Drosophila S2 cells[1]. Indazapyroxamet binds to the brown planthopper TRPV channel in a pocket overlapping that of known agonists, forming a π-stacking interaction with NlIavW322 but lacking critical interactions with NlNanY178, which explains its partial agonist and antagonistic activity[1].

References:

[1]. Zhou T, et al. Functional and genetic validation for indazapyroxamet as an antagonist of insect TRPV channels[J]. Pesticide Biochemistry and Physiology, 2026: 107177.

Caution: Product has not been fully validated for medical applications. For research use only.

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