

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

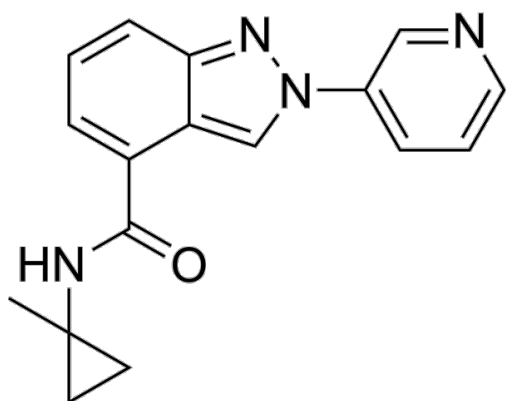
Solubility

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/lav 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 μ M; 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 μ M, and this behavioral effect requires functional TRPV channels as it is completely abolished in

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

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Nan and lav loss-of-function mutants^[1].

In Vitro, Indazapyroxamet (10 min) acts as a low-efficacy partial agonist ($EC_{50}=13.1$ 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 NIlavW322 but lacking critical interactions with NINanY178, 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.

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