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## Product Data Sheet

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Product Name: Veledimex racemate (RG-115932 racemate)

Cat. No.: GC33870

### Chemical Properties

Cas. No. 755013-59-3

SMILES O=C(NN(C(C1=CC(C)=CC(C)=C1)=O)C(C(C)(C)C)CCC)C2=CC=CC(OC)=C2CC

Formula  $C_{27}H_{38}N_2O_3$  M.Wt 438.6

Solubility Soluble in DMSO 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

Veledimex racemate is the racemate of veledimex. Veledimex is an orally available, small-molecule activator ligand for the RheoSwitch Therapeutic System.

Interleukin 12 (IL-12) is a pro-inflammatory cytokine critical for stimulating anti-cancer immune responses. Ad-RTS-IL-12 is the adenovirus vector engineered to express hIL-12. Veledimex is an orally active small-molecule diacylhydrazine and controls the expression of the target gene. The amount of gene product produced by the system and the duration of the effect are dependent on veledimex dose level and duration of dosing[1].

Veledimex, combined with Ad-RTS-hIL-12, is in phase I/II clinical trials for the treatment of melanoma and breast cancer. Intratumoral administration of Ad-RTS-mIL-12 along with oral administration of veledimex elicits dose-dependent antitumor effects in murine melanoma, breast cancer, and glioma models, which correlates with increased plasma exposure of veledimex. The increase in tumor veledimex levels in combination with Ad-RTS-mIL-12 results in a dose-related increase in the IL-12 mRNA (switch on) leading to dose-related increases in IL-12p70 in the tumor with minimal increase in serum IL-12.

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

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The increase in tumor IL-12 correlates with an increase in tumor CD8+ cytotoxic T cells and a concomitant decrease in regulatory T cells in the tumor microenvironment, which leads to Ad-RTS-mIL-12 + veledimex-elicited dose-related decreases in tumor growth rate with no significant change in body weight in both breast and melanoma syngeneic mouse models. Veledimex has moderate to low oral bioavailability after a single oral administration in mice and monkeys (-56% in mice and up to 17.4% in cynomolgus monkeys) with mostly low plasma clearance (1399 and 1170 mL/h per kilogram in mice and monkeys, respectively), high volume of distribution (20271 and 9180 mL/h per kilogram in mice and monkeys, respectively), and long terminal half-lives (-10 hours in mice and -30 hours in monkeys) after intravenous administration[1].

[1]. Cai H, et al. Plasma Pharmacokinetics of Veledimex, a Small-Molecule Activator Ligand for a Proprietary GeneTherapy Promoter System, in Healthy Subjects. Clin Pharmacol Drug Dev. 2017 May;6(3):246-257.

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