
Product Data Sheet

Product Name: Valbenazine tosylate

Cat. No.: GC26029

Chemical Properties

Cas. No. 1639208-54-0

Formula C₃₈H₅₄N₂O₁₀S₂

M.Wt 762.97

Solubility DMSO: 100 mg/mL (131.07 mM);;

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

Valbenazine tosylate (NBI-98854) is the tosylate salt of valbenazine, a vesicular monoamine transporter 2 (VMAT2) inhibitor with a K_i value of 150 nM while displaying no significant binding to VMAT1 ($K_i < 10 \mu\text{M}$).

Valbenazine is a potent, selective, and specific inhibitor of VMAT2 with no inhibition of the related VMAT1 transporter and minimal off-target interactions at more than 80 other receptor transporters and ion channels[2].

Valbenazine is a novel and highly selective VMAT2 inhibitor that is rapidly absorbed but more slowly metabolized, with a half-life of approximately 20 h that supports once-daily dosing[2]. Valbenazine has moderate absorption with an absolute oral bioavailability of approximately 49%; time to maximum concentration ranges from 0.5 to 1.0 hour. Valbenazine can be taken with or without food. Valbenazine exhibits protein binding of 99%. Valbenazine is primarily metabolized via the hydrolysis of the valine ester and cytochrome P450 (CYP) 3A4/5 into R,R,R-HTBZ and a mono-oxy metabolite[3].

[1] Citrome L. Expert Rev Neurother. 2018, 18(4):323-332. [2] Grigoriadis DE, et al. J Pharmacol Exp Ther. 2017, 361(3):454-461. [3] Stepan Uhlyar, et al. P T. 2018, 43(6): 328-331.

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

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