

Product Data Sheet

Product Name: MPH-220
Cat. No.: GC69494

Chemical Properties

Cas. No. 2649776-79-2

Formula $C_{20}H_{21}N_3O_3S$ M.Wt 383.46

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

MPH-220 is a selective and orally active inhibitor of skeletal muscle **myosin-2**. MPH-220 enables muscle relaxation. MPH-220 is an anti-spastic agent that can be used in the research of spasticity and muscle stiffness^[1].

MPH-220 (0-50 μM) ATP ^[1]

MPH-220 (25-30 mg/kg) ^[1]

MPH-220 (15 mg/kg) ^[1]

Animal Model: Anesthetized rats^[1]

Dosage: 25-30 mg/kg

Administration: Intraperitoneal injection (i.p.) or oral gavage

Result: Reduced skeletal muscle force. Observed MPH-220 distribution in rat tissues in a time-dependent manner and a dose-dependent, few-fold accumulation in skeletal muscle.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

[1]. Gyimesi M, et al. Single Residue Variation in Skeletal Muscle Myosin Enables Direct and Selective Drug Targeting for Spasticity and Muscle Stiffness. Cell. 2020 Oct 15;183(2):335-346.e13.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA