LKT Laboratories, Inc.

PJ34 Hydrochloride

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

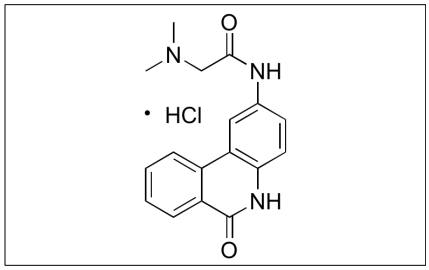
Product Information

Product ID P3600
CAS No. 344458-15-7
Chemical Name

Synonym

Formula $C_{17}H_{17}N_3O_2 \cdot HCl$
Formula Wt. 331.80
Melting Point
Purity ≥95%
Solubility

DMSO	66 mg/mL (198.91 mM)
Water	66 mg/mL (198.91 mM)
Ethanol	Insoluble



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
P3600	1 mg	$83.40
P3600	5 mg	$212.90
P3600	25 mg	$648.30

Store Temp -20˚C
Ship Temp Ambient

Description PJ34 is a phenanthridinone derivative that acts as a competitive poly(ADP)-ribose polymerase (PARP) inhibitor. PJ34 exhibits cardioprotective, neuroprotective, anticancer, and anti-diabetic activities. In in vitro and in vivo models of oxygen glucose deprivation, PJ34 protects against stroke-related ischemic brain injury. This compound is also cardioprotective against myocardial infarction, decreasing infarct size and postsystolic shortening. In diabetic NOD mice, PJ34 decreased insulitis, beta-cell destruction, and diabetes incidence by decreasing islet IFN-γ expression and inducing apoptosis in islet-infiltrating leukocytes. In mouse models of allergic encephalitis, PJ34 exhibits protective benefit by shifting the immune response from a pro-inflammatory Th1-mediated response to an anti-inflammatory Th2-mediated response. Additionally, in a variety of cancer cell lines, PJ34 induces G2/M phase mitotic arrest and caspase-depedent apoptosis, potentially due to direct antagonism of Pim -1 kinase.

References

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