



LKT Laboratories, Inc.

Purmorphamine

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

Product Information

Product ID P8370

CAS No. 483367-10-8

Chemical Name

Synonym

Formula $C_{31}H_{32}N_6O_2$

Formula Wt. 520.64

Melting Point

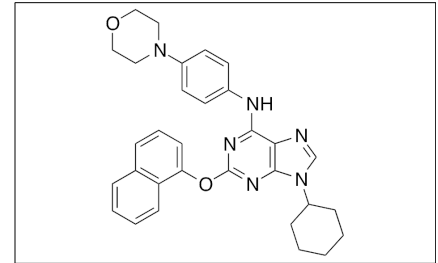
Purity $\geq 98\%$

Solubility 100mM in DMSO

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Purmorphamine is an agonist at Smoothed (Smo) receptors; it stimulates activity in the Hedgehog signaling pathway. Purmorphamine displays neuroprotective, pro-angiogenic, and anti-osteoporotic activities. In mesenchymal stem cells, this compound decreases proliferation, increases alkaline phosphatase activity, and accelerates osteogenesis. In animal models of stroke, purmorphamine restores neurological deficits, decreases neuronal apoptosis, and increases neovascularization. Purmorphamine also inhibits the induction of autophagy in hepatocellular carcinoma cells.



Bulk quantities available upon request

Product ID	Size
P8370	1 mg
P8370	5 mg
P8370	25 mg

References Wöltje M, Böbel M, Heiland M, et al. Purmorphamine and oxysterols accelerate and promote osteogenic differentiation of mesenchymal stem cells in vitro. *In Vivo*. 2015 Mar-Apr;29(2):247-54. PMID: 25792653.

Chechneva OV, Mayrhofer F, Daugherty DJ, et al. A Smoothed receptor agonist is neuroprotective and promotes regeneration after ischemic brain injury. *Cell Death Dis*. 2014 Oct 23;5:e1481. PMID: 25341035.

Wang Y, Han C, Lu L, et al. Hedgehog signaling pathway regulates autophagy in human hepatocellular carcinoma cells. *Hepatology*. 2013 Sep;58(3):995-1010. PMID: 23504944.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.