



Data Sheet

Research Use Only

Compound Name

Purmorphamine

Catalog Number

SM30

Activity

Purmorphamine is an agonist of the protein Smoothed (Hh), a key part of the hedgehog signaling pathway, which is involved in bone growth and brain development as well as having a number of other functions in the body.

Purity

>98%

Formula

$C_{31}H_{32}N_6O_2$

Solubility

DMSO

References

1. Xu, X., et al. 2004. Chem Biol. 11(9): 1229-1238. PMID: 15380183

Alternative Names

9-cyclohexyl-N-(4-morpholinophenyl)-2-(naphthalen-1-yloxy)-9H-purin-6-amine, 2-(1-Naphthoxy)-6-(4-morpholinoanilino)-9-cyclohexylpurine

Effect

Purmorphamine has been shown to induce osteogenesis in bone tissue as well as influencing growth and differentiation of neurons in the brain. The EC50 value for differentiation of C3H10T1/2 cells based on alkaline phosphatase expression is 1 μ M.

CAS

483367-10-8

Molecular Weight

520.60

Stability

Stable at -20°C. Keep away from direct sunlight.