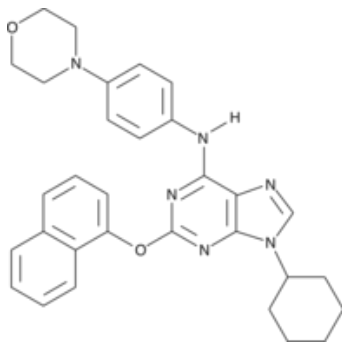


# Product Sheet

## Purmorphamine, SMO agonist

<b>Catalog #</b>	Pur-05; Pur-25; Pur-100
<b>Description</b>	<p>Purmorphamine is an agonist of SMO (smoothed). This small molecule compound activates the hedgehog pathway by directly binding to SMO. It has been shown to induce osteogenesis of mesenchymal stem cells.</p> <p><i>Ref: Wu, X., et al. 2004. Chem. Biol. 11: 1229; Sinha, S. and Chen, J.K. 2006. Nat. Chem. Biol. 2: 29</i></p>
<b>Formulation</b>	Powder
<b>Reconstitution</b>	Before reconstitution, we recommend a brief spin to drive down any material dislodged from the bottom of the tube. The compound is soluble in DMSO.
<b>Stability</b>	The powder is stable for at least 2 year if stored at -20 degree C. The dissolved compound is stable for at least 1 month at 4 degree C, but should be stored in aliquots at -20 degree C for longer term. Protect from light.
<b>Purity</b>	Greater than 98% as determined by LC/MS analysis. LC/MS and/or NMR data available upon request.
<b>Biological Activity</b>	In a cell-based assay measuring the activation of the Gli-1 reporter gene, this compound gives EC50 of 1.0 uM.

### Structural Info



**MW:** 520.6

**Formula:** C<sub>31</sub>H<sub>32</sub>N<sub>6</sub>O<sub>2</sub>

**Solubility:** Soluble in DMSO at 10 mM.

**CAS:** 483367-10-8

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