

Product data sheet



MedKoo Cat#: 562972 Name: HLM006474 CAS#: 353519-63-8 Chemical Formula: C ₂₅ H ₂₅ N ₃ O ₂ Exact Mass: 399.1947 Molecular Weight: 339.49	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

HLM006474 is a pan-E2F inhibitor. It inhibits DNA binding to E2F1, E2F2, and E2F4 in A375 melanoma cells when used at a concentration of 40 μM.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	25.0	62.58

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.94 mL	14.73 mL	29.46 mL
5 mM	0.59 mL	2.94 mL	5.89 mL
10 mM	0.29 mL	1.47 mL	2.94 mL
50 mM	0.06 mL	0.29 mL	0.59 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Ma Y, Kurtyka CA, Boyapalle S, Sung SS, Lawrence H, Guida W, Cress WD. A small-molecule E2F inhibitor blocks growth in a melanoma culture model. *Cancer Res.* 2008 Aug 1;68(15):6292-9. doi: 10.1158/0008-5472.CAN-08-0121. PMID: 18676853; PMCID: PMC3615411.

In vivo study

1. Ma Y, Kurtyka CA, Boyapalle S, Sung SS, Lawrence H, Guida W, Cress WD. A small-molecule E2F inhibitor blocks growth in a melanoma culture model. *Cancer Res.* 2008 Aug 1;68(15):6292-9. doi: 10.1158/0008-5472.CAN-08-0121. PMID: 18676853; PMCID: PMC3615411.

7. Bioactivity

Biological target:

HLM006474 is a pan E2F inhibitor, which inhibits E2F4 DNA-binding with an IC₅₀ of 29.8 μM in A375 cells.

In vitro activity

To examine its effect on a range of commonly studied cell lines, this study utilized standard MTS assays to quantify cell viability following HLM006474 treatment. The results of these assays clearly indicate that HLM006474 decreases the number of viable cells over the experimental time course.

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Reference: Cancer Res. 2008 Aug 1;68(15):6292-9. <https://pubmed.ncbi.nlm.nih.gov/18676853/>

In vivo activity

To test this hypothesis, this study screened for compounds that might inhibit E2F DNA-binding and identified one small molecule that clearly targets E2F in vivo. In vivo this inhibitor leads to significant downregulation of E2F4 protein. This unexpected activity may account for the primary biological activity and specificity of HLM006474 and provides an easy way to monitor its biological activity (E2F4 western blotting or IHC).

Reference: Cancer Res. 2008 Aug 1;68(15):6292-9. <https://pubmed.ncbi.nlm.nih.gov/18676853/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.