

# Product data sheet



MedKoo Cat#: 565548 Name: NPD8733 CAS: 696655-62-6 Chemical Formula: C <sub>18</sub> H <sub>15</sub> NO <sub>4</sub> Exact Mass: 309.1001 Molecular Weight: 309.321	
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:

NPD8733 is an inhibitor of cancer cell-enhanced fibroblast migration. NPD8733 specifically binds to valosin-containing protein (VCP)/p97.

## 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
TBD	TBD	TBD

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.23 mL	16.16 mL	32.33 mL
5 mM	0.65 mL	3.23 mL	6.47 mL
10 mM	0.32 mL	1.62 mL	3.23 mL
50 mM	0.07 mL	0.32 mL	0.65 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

Suvarna K, Honda K, Muroi M, Kondoh Y, Osada H, Watanabe N. A small-molecule ligand of valosin-containing protein/p97 inhibits cancer cell-accelerated fibroblast migration. *J Biol Chem.* 2019 Mar 1;294(9):2988-2996. doi: 10.1074/jbc.RA118.004741. Epub 2019 Jan 4. PMID: 30610116; PMCID: PMC6398144.

In vivo study

TBD

## 7. Bioactivity

Biological target:

NPD8733 is an inhibitor of cancer cell-enhanced fibroblast migration.

In vitro activity

This study identified NPD8733 as an inhibitor of cancer cell-enhanced fibroblast migration. This inhibition was observed not only in a wound-healing co-culture assay but also in a Transwell migration assay. Using NPD8733 and a structurally similar but inactive derivative, NPD8126, on immobilized beads, we found that NPD8733, but not NPD8126, specifically binds to valosin-containing protein (VCP)/p97, a member of the ATPase-associated with diverse cellular activities (AAA+) protein family.

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Reference: J Biol Chem. 2019 Mar 1;294(9):2988-2996. <https://pubmed.ncbi.nlm.nih.gov/30610116/>

In vivo activity

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TBD

*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.*