

Product data sheet



MedKoo Cat#: 563722 Name: OB-24 HCl CAS: 939825-12-4 Chemical Formula: C ₁₅ H ₁₈ BrClN ₂ O ₂ Exact Mass: 372.024 Molecular Weight: 373.675	
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:

OB-24 HCl is a potent and selective heme oxygenase 1 (HO-1) inhibitor.

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	37.37	100.0
Water	37.37	100.0

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.68 mL	13.38 mL	26.76 mL
5 mM	0.54 mL	2.68 mL	5.35 mL
10 mM	0.27 mL	1.34 mL	2.68 mL
50 mM	0.05 mL	0.27 mL	0.54 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

Alaoui-Jamali MA, Bismar TA, Gupta A, Szarek WA, Su J, Song W, Xu Y, Xu B, Liu G, Vlahakis JZ, Roman G, Jiao J, Schipper HM. A novel experimental heme oxygenase-1-targeted therapy for hormone-refractory prostate cancer. *Cancer Res.* 2009 Oct 15;69(20):8017-24. doi: 10.1158/0008-5472.CAN-09-0419. Epub 2009 Oct 6. PMID: 19808972.

In vivo study

Alaoui-Jamali MA, Bismar TA, Gupta A, Szarek WA, Su J, Song W, Xu Y, Xu B, Liu G, Vlahakis JZ, Roman G, Jiao J, Schipper HM. A novel experimental heme oxygenase-1-targeted therapy for hormone-refractory prostate cancer. *Cancer Res.* 2009 Oct 15;69(20):8017-24. doi: 10.1158/0008-5472.CAN-09-0419. Epub 2009 Oct 6. PMID: 19808972.

7. Bioactivity

Biological target:

OB-24 is a potent inhibitor of heme oxygenase-1 (HO-1).

In vitro activity

The effect of ho-1 silencing on these oncogenic features was mimicked by exposure of cells to a novel selective small-molecule HO-1 inhibitor referred to as OB-24. OB-24 selectively inhibited HO-1 activity in PCA cells, which correlated with a reduction of protein

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carbonylation and reactive oxygen species formation. Moreover, OB-24 significantly inhibited cell proliferation in vitro and tumor growth and lymph node/lung metastases in vivo.

Reference: Cancer Res. 2009 Oct 15;69(20):8017-24. <https://pubmed.ncbi.nlm.nih.gov/19808972/>

In vivo activity

The effect of ho-1 silencing on these oncogenic features was mimicked by exposure of cells to a novel selective small-molecule HO-1 inhibitor referred to as OB-24. OB-24 selectively inhibited HO-1 activity in PCA cells, which correlated with a reduction of protein carbonylation and reactive oxygen species formation. Moreover, OB-24 significantly inhibited cell proliferation in vitro and tumor growth and lymph node/lung metastases in vivo.

Reference: Cancer Res. 2009 Oct 15;69(20):8017-24. <https://pubmed.ncbi.nlm.nih.gov/19808972/>

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.