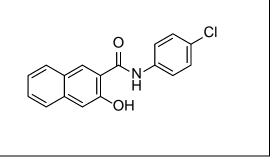
Product data sheet



MedKoo Cat#: 565338				
Name: nAS-E				
CAS: 92-78-4				
Chemical Formula: C ₁₇ H ₁₂ ClNO ₂				
Exact Mass: 297.0557				
Molecular Weight: 297.738				
Product supplied as:	Powder			
Purity (by HPLC):	$\geq 98\%$			
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:

nAS-E is an inhibitor of the KIX-KID interaction and CREB-mediated gene transcription.

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	41.67	139.96

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.36 mL	16.79 mL	33.59 mL
5 mM	0.67 mL	3.36 mL	6.72 mL
10 mM	0.34 mL	1.68 mL	3.36 mL
50 mM	0.07 mL	0.34 mL	0.67 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. Yang Q, Tang J, Cao J, Liu F, Fu M, Xue B, Zhou A, Chen S, Liu J, Zhou Y, Shi Y, Peng W, Chen X. SARS-CoV-2 infection activates CREB/CBP in cellular cyclic AMP-dependent pathways. J Med Virol. 2023 Jan;95(1):e28383. doi: 10.1002/jmv.28383. PMID: 36477795; PMCID: PMC9877775.

2. Li BX, Xiao X. Discovery of a small-molecule inhibitor of the KIX-KID interaction. Chembiochem. 2009 Nov 23;10(17):2721-4. doi: 10.1002/cbic.200900552. PMID: 19810079; PMCID: PMC4214275.

In vivo study

1. Kuang Q, Liang Y, Zhuo Y, Cai Z, Jiang F, Xie J, Zheng Y, Zhong W. The ALDOA Metabolism Pathway as a Potential Target for Regulation of Prostate Cancer Proliferation. Onco Targets Ther. 2021 May 24;14:3353-3366. doi: 10.2147/OTT.S290284. PMID: 34079281; PMCID: PMC8163754.

2. Jiang M, Yan Y, Yang K, Liu Z, Qi J, Zhou H, Qian N, Zhou Q, Wang T, Xu X, Xiao X, Deng L. Small molecule nAS-E targeting cAMP response element binding protein (CREB) and CREB-binding protein interaction inhibits breast cancer bone metastasis. J Cell Mol Med. 2019 Feb;23(2):1224-1234. doi: 10.1111/jcmm.14024. Epub 2018 Nov 20. PMID: 30461194; PMCID: PMC6349349.

7. Bioactivity

Biological target:

Naphthol AS-E is a potent and cell-permeable inhibitor of KIX-KID interaction.

Product data sheet



In vitro activity

This study describes the discovery of naphthol AS-E (1) as a cell-permeable small-molecule inhibitor of the KIX–KID interaction by using a novel Renilla luciferase complementation assay.

Reference: Chembiochem. 2009 Nov 23;10(17):2721-4. https://pubmed.ncbi.nlm.nih.gov/19810079/

In vivo activity

In addition, the in vivo effect of nAS-E in protecting against breast cancer-induced osteolysis was evaluated in mice. These results indicated that nAS-E could reverse bone loss induced by MDA-MB-231 tumour.

Reference: J Cell Mol Med. 2019 Feb;23(2):1224-1234. https://pubmed.ncbi.nlm.nih.gov/30461194/

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.