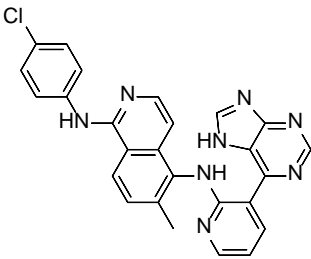


# Product data sheet



MedKoo Cat#: 407220 Name: MDK0403 CAS: 1093100-40-3 Chemical Formula: C <sub>26</sub> H <sub>19</sub> ClN <sub>8</sub> Exact Mass: 478.1421 Molecular Weight: 478.944		
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:

MDK0403, also known as B-Raf inhibitor 1, is a potent and selective B-Raf inhibitor with cell IC<sub>50s</sub> of 0.31 μM and 2 nM for A375 proliferation and A375 p-ERK respectively. MDK0403 has CAS#1093100-40-03. The last 4 digit of CAS# was used for name for the convenience of scientific communication.

## 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	73.0	152.42

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.09 mL	10.44 mL	20.88 mL
5 mM	0.42 mL	2.09 mL	4.18 mL
10 mM	0.21 mL	1.04 mL	2.09 mL
50 mM	0.04 mL	0.21 mL	0.42 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

TBD

In vivo study

TBD

## 7. Bioactivity

Biological target:

Raf inhibitor 1 is a potent Raf kinase inhibitor with K<sub>i</sub>s of 1 nM, 1 nM, and 0.3 nM for B-Raf<sup>WT</sup>, B-Raf<sup>V600E</sup>, and C-Raf.

In vitro activity

TBD

In vivo activity

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.*