

# Product data sheet



MedKoo Cat#: 577819 Name: Bromofosfamide CAS: 104149-14-6 Chemical Formula: C <sub>7</sub> H <sub>15</sub> BrClN <sub>2</sub> O <sub>2</sub> P Exact Mass: 303.9743 Molecular Weight: 305.5368	
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:

Bromofosfamide, also known KM-135, is an alkylating agent with antitumor activity.

## 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	3.27 mL	16.36 mL	32.73 mL
5 mM	0.65 mL	3.27 mL	6.55 mL
10 mM	0.33 mL	1.64 mL	3.27 mL
50 mM	0.07 mL	0.33 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

1. Kusnierczyk H, Pajtasz-Piasecka E, Radzikowski C. Synergistic antitumour effects of chemo-immunotherapy with an oxazaphosphorine drug and IL-2-secreting cells in a mouse colon cancer model. *Med Oncol.* 1999 Dec;16(4):267-78. doi: 10.1007/BF02785873. PMID: 10618690.

### In vivo study

1. Misiura K, Kinas RW, Kuśnierczyk H, Radzikowski C, Stec WJ. (S)-(-)-Bromofosfamide (CBM-11): synthesis and antitumor activity and toxicity in mice. *Anticancer Drugs.* 2001 Jun;12(5):453-8. doi: 10.1097/00001813-200106000-00006. PMID: 11395573.

## 7. Bioactivity

### Biological target:

Bromofosfamide, also known KM-135, is an alkylating agent with antitumor activity.

### In vitro activity

Combination of CY or CBM-11 with 6-7 p.t. injections of IL-2-secreting cells resulted in potentiation of the therapeutic effects: TGD and ILS values were considerably increased and long-lasting CRs were observed. The overall incidence of CR after combined treatment was ca 16% and 42% for CY and CBM-11, respectively (P=0.049).

Reference: *Med Oncol.* 1999 Dec;16(4):267-78. <https://pubmed.ncbi.nlm.nih.gov/10618690/>

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## In vivo activity

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(S)-(-)-Bromofosfamide (CBM-11), an enantiomerically pure bromo analog of ifosfamide, was found to be potent against several model tumors in mice. Therapeutic indices of CBM-11 were more favorable as compared to those received for ifosfamide.

Reference: Anticancer Drugs. 2001 Jun;12(5):453-8. <https://pubmed.ncbi.nlm.nih.gov/11505792/>

*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.*