# Borofalan

**Cat. No.:** HY-129812

**CAS No.:** 80994-59-8

**Molecular Formula:** $C_9H_{12}{}^{10}BNO_4$

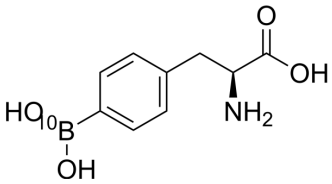
**Molecular Weight:** 208.21

**Target:** Isotope-Labeled Compounds

**Pathway:** Others

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

$H_2O$ : 4 mg/mL (19.21 mM; ultrasonic and warming and adjust pH to 11 with NaOH and heat to 70°C)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 4.8028 mL | 24.0142 mL | 48.0284 mL |
| | 5 mM | 0.9606 mL | 4.8028 mL | 9.6057 mL |
| | 10 mM | 0.4803 mL | 2.4014 mL | 4.8028 mL |

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

**Description**

Borofalan-$^{10}$B can be used for Boron neutron capture research (BNCT). Borofalan-$^{10}$B can be used for the research of recurrent or locally advanced head and neck cancer[1].

## REFERENCES

[1]. Hirose K, et al. Boron neutron capture therapy using cyclotron-based epithermal neutron source and borofalan (10B) for recurrent or locally advanced head and neck cancer (JHN002): An open-label phase II trial. Radiother Oncol. 2021 Feb;155:182-187.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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