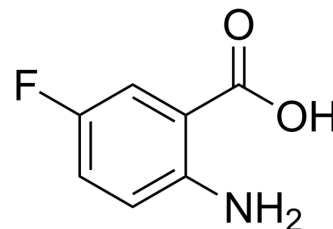


## 2-Amino-5-fluorobenzoic acid

|                    |  |       |          |
|--------------------|--|-------|----------|
| Cat. No.:          | HY-34053   |       |          |
| CAS No.:           | 446-08-2   |       |          |
| Molecular Formula: | C <sub>7</sub> H <sub>6</sub> FN <sub>2</sub> O <sub>2</sub> |       |          |
| Molecular Weight:  | 155.13   |       |          |
| Storage:           | Powder   | -20°C | 3 years  |
|                    |  | 4°C   | 2 years  |
|                    | In solvent   | -80°C | 6 months |
|                    |  | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (644.62 mM; Need ultrasonic)

|                              | Solvent<br>Concentration | Mass | 1 mg      | 5 mg       | 10 mg      |
|------------------------------|--------------------------|------|-----------|------------|------------|
|                              |                          |      |           |            |            |
| Preparing<br>Stock Solutions | 1 mM                     |      | 6.4462 mL | 32.2310 mL | 64.4621 mL |
|                              | 5 mM                     |      | 1.2892 mL | 6.4462 mL  | 12.8924 mL |
|                              | 10 mM                    |      | 0.6446 mL | 3.2231 mL  | 6.4462 mL  |

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

### BIOLOGICAL ACTIVITY

#### Description

2-Amino-5-fluorobenzoic acid is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

#### In Vitro

2-Amino-5-fluorobenzoic acid is a toxic antitimetabolite for the tryptophan pathway in yeast that can be used to counterselect for TRP1, a commonly used genetic marker in *S. cerevisiae*. Because this trp1 strain lacks the enzymes required for the conversion of anthranilic acid to tryptophan, it is resistant to 2-amino-5-fluorobenzoic acid feedback inhibition, enabling a growth-based, positive selection of the TRP1 marker. 2-Amino-5-fluorobenzoic acid is frequently used in genetic procedures that involve plasma manipulation calculations.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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