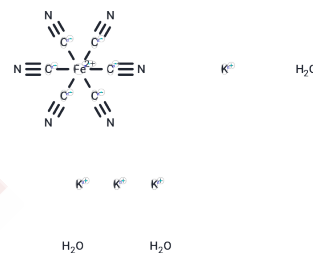


Potassium Ferrocyanide Trihydrate

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 14459-95-1 |
| Formula: | C ₆ H ₆ FeK ₄ N ₆ O ₃ |
| Molecular Weight: | 422.39 |
| Storage: | Store at RT Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|--|
| Description | Potassium Ferrocyanide Trihydrate is a stable coordination compound and oxidising agent, used for solution preparation in cell biology and enzyme experiments. |
| Targets(IC50) | Others |

Solubility Information

| | |
|------------|--|
| Solubility | H ₂ O: 80 mg/mL (189.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.3675 mL | 11.8374 mL | 23.6748 mL |
| 5 mM | 0.4735 mL | 2.3675 mL | 4.735 mL |
| 10 mM | 0.2367 mL | 1.1837 mL | 2.3675 mL |
| 50 mM | 0.0473 mL | 0.2367 mL | 0.4735 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yang N, et al., In Situ Generation of Prussian Blue with Potassium Ferrocyanide to Improve the Sensitivity of Chemiluminescence Immunoassay Using Magnetic Nanoparticles as Label. *Anal Chem.* 2019 Apr 2;91(7):4906-4912.

EFSA Panel on Food Additives and Nutrient Sources added to Food (ANS); Younes M, et al., Re-evaluation of sodium ferrocyanide (E 535), potassium ferrocyanide (E 536) and calcium ferrocyanide (E 538) as food additives. *EFSA J.* 2018 Jul 25;16(7):e05374.

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