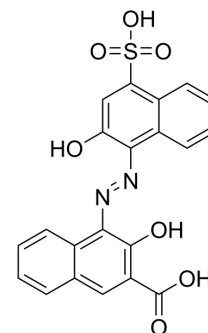


Calconcarboxylic acid

Cat. No.:	HY-Y0700
CAS No.:	3737-95-9
Molecular Formula:	C ₂₁ H ₁₄ N ₂ O ₇ S
Molecular Weight:	438.41
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (285.12 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2810 mL	11.4048 mL	22.8097 mL
	5 mM	0.4562 mL	2.2810 mL	4.5619 mL
	10 mM	0.2281 mL	1.1405 mL	2.2810 mL

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

BIOLOGICAL ACTIVITY

Description

Calconcarboxylic acid, an azo dye, acts as a silver-ion sensitizer to stain protein in SDS-PAGE gels. Calconcarboxylic acid increases silver binding on protein bands or spots by the formation of a silver-dye complex and also increases the reducing power o

REFERENCES

- [1]. Jin LT, et al. Sensitive silver staining of protein in sodium dodecyl sulfate-polyacrylamide gels using an azo dye, calconcarboxylic acid, as a silver-ion sensitizer. *Electrophoresis*. 2004 Aug;25(15):2494-500.
- [2]. Hong HY, et al. Detection of proteins on polyacrylamide gels using calconcarboxylic acid. *Anal Biochem*. 1993 Oct;214(1):96-9.
- [3]. Li-Tai Jin, et al. Sensitive silver staining of protein in sodium dodecyl sulfate-polyacrylamide gels using an azo dye, calconcarboxylic acid, as a silver-ion sensitizer. *Electrophoresis*. 2004 Aug;25(15):2494-500.

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

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