



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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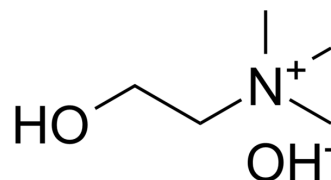
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## Choline hydroxide, 44 wt.% in water

<b>Cat. No.:</b>	HY-Y1242		
<b>CAS No.:</b>	123-41-1		
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>15</sub> NO <sub>2</sub>		
<b>Molecular Weight:</b>	121		
<b>Target:</b>	Biochemical Assay Reagents		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (20.66 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (20.66 mM); Clear solution</li> </ol>
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### BIOLOGICAL ACTIVITY

<b>Description</b>	Choline hydroxide is a Choline hydrogen oxidized derivative and a strong organic base, can be used as the standard alkaline to adjust the pH of the medium. Choline is an orally active nutrient, serves as an important component of lecithin and sphingomyelin, promotes fat metabolism <sup>[1][2][3]</sup> .
<b>In Vitro</b>	Choline hydroxide can be used as the standard alkaline, and (0.5 M) results pH <sub>0</sub> shifts rapidly to 7.59 in a sucrose medium (pH at 7.08) <sup>[1]</sup> . Choline hydroxide (0.1-0.5 g/mL), together with organic carboxylic acids, makes preparation of ionic liquids, which is used for prepare a ionic liquid-reverse micelle drug-carrying delivery system and involves in epidermal desensitization research <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Mitchell P, et al. Estimation of membrane potential and pH difference across the cristae membrane of rat liver mitochondria. Eur J Biochem. 1969 Feb;7(4):471-84.
- [2]. Ding Y, et al. An ionic liquid-reverse micelle drug delivery system for epidermal desensitization therapy and its preparation method and application: China, CN113975224. 2022-01-28.
- [3]. Wang F, et al. Short communication: Effects of dietary deoiled soy lecithin supplementation on circulating choline and choline metabolites, and the plasma phospholipid profile in Holstein cows fed palm fat. J Dairy Sci. 2021 Feb;104(2):1838-1845.

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

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