Proteins

Product Data Sheet

Gelucire 44/14

Cat. No.: HY-Y1892 CAS No.: 121548-04-7

Target: **Biochemical Assay Reagents**

Others Pathway:

Pure form -20°C Storage: 3 years

2 years

Gelucire 44/14

SOLVENT & SOLUBILITY

In Vitro

Ethanol: 100 mg/mL (Need ultrasonic)

BIOLOGICAL ACTIVITY

Description

Gelucire 44/14 is a potential and safe absorption enhancer for improving the absorption of poorly absorbable agents including insulin and calcitonin by pulmonary delivery.

In Vivo

Gelucire 44/14 is a potential and safe absorption enhancer for improving the absorption of poorly absorbable drugs including insulin and calcitonin by pulmonary delivery. It is found that pulmonary absorptions of FD4, FD10 and FD70 are enhanced in different degree by Gelucire 44/14 in a concentration-dependent manner, and the maximal absorptionenhancing effect is obtained when the concentration of Gelucire 44/14 reaches to 2.0% (w/v). It is also found that the absorption enhancing ability of Gelucire Gelucire 44/14 is correlated with the molecular weight of model drugs, and the highest absorption enhancement ratio of Gelucire Gelucire 14/44 is observed when the molecular weight of model drugs reaches to nearly 10000 Da^[1].

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

PROTOCOL

Animal Administration [1] Male Sprague Dawley rats are used to evaluate the pulmonary membrane toxicity of Gelucire 44/14. PBS (pH 7.4) with or without Gelucire 44/14 are directly administered to the tracheae of the rats according to the in-situ pulmonary absorption experiments. Four hours later, the rats are bled from the abdominal aorta, and then PBS (pH7.4) is perfused into the rat lung along the trachea. Afterwards, bronchoalveolar lavage fluid (BALF) of rat in each group is collected and kept in ice immediately until determination^[1].

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

REFERENCES

[1]. Zhang H, et al. Improveme Oct;66(10):1410-20.	nt of pulmonary absorption	s of poorly absorbable drugs using	Gelucire 44/14 as an absorption enhancer.	J Pharm Pharmacol. 2014
	Caution: Product has I Tel: 609-228-6898	not been fully validated for me Fax: 609-228-5909	dical applications. For research use onl E-mail: tech@MedChemExpress.co	
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