

Phosal 50 PG

Chemical Properties

CAS No. : 774594-96-6

Formula:

Molecular Weight:

Phosal 50 PG

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Phosal 50 PG is a co-solvent used as an emulsifier and stabilizer in the pharmaceutical and cosmetic industries. Phosal 50 PG is used as a dietary supplement.
Targets(IC50)	Others
In vitro	Phosal 50 PG has superior emulsifying capacity over Phosal 53MCT and is more miscible with water in the presence of glycerol. The presence of the PG in Phosal 50 PG leads to a more uniform formulation and prevents phase separation. [1]
In vivo	Phosal 50 PG is commonly used as a co-solvent. Phosal 50 PG may be cloudy and viscous. This characteristic does not affect the use and the solution can be heated until it clarifies. Oral administration in lipid-based formulations (in 10% ethanol, 30% PEG400, and 60% Phosal 50 PG), in which the compound is significantly more soluble, yielded enhanced absorption with bioavailability near 50%. [1]

Reference

Hoogevest P V . Non-Aqueous Phospholipid Concentrates for Increasing the Bioavailability of Poorly Soluble Compounds. European Journal of Lipid Science and Technology, 2020, 122(6).

Khani S, et al. Improved oral bioavailability of mebudipine upon administration in PhytoSolve and Phosal-based formulation (PBF). AAPS PharmSciTech. 2014 Feb;15(1):96-102.

Ajdary M, et al. Design and evaluation of a novel nanodrug delivery system for reducing the side effects of clomiphene citrate on endometrium. Daru. 2020 Dec;28(2):423-432.

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